

NATIONAL LIBRARY OF MEDICINE Bethesda, Maryland



Errata.

Customers will oblige us by noting these corrections on following pages:









Special Notice.

ON account of the immense cost of this Catalogue, we can supply each customer with but one copy. We have an exact record of each volume leaving our office. A charge of Three Dollars will be made for duplicate copies. This is imperative.

A Hint

This book is the best Catalogue we know how to compile. The man who appreciates it is the man in whom we are interested, because that man will note any changes that may occur in prices, on the margin of these pages, soon as he knows of the change. We will never have to bother sending back part of his remittance because he has sent too much. The book is corrected up to date of issue. Five minutes a week will keep it abreast of the times.

Meet us half way.





THE dealer or agent who professes to supply an article at a price lower than he charges others for the same thing, confesses that he is deceiving others, or that he is deceiving the person whose order he seeks. In either case he cannot be believed. If he takes part of his price from one, he will take a smaller part from another. If he can afford to take less than his regular rates from one, he confesses that he is charging others too much and making them pay for concessions given a few more favored.

To insure fair treatment, one man should be able to buy as cheaply as another.

Our prices and terms are the same to all alike, and we believe them to be as low as articles of equal merit can be sold. Established 1849. Incorporated 1893.

Rochester Dental Mfg. Co's

ILLUSTRATED CATALOGUE

Dental Furniture, Instruments

Materials.

. . . AND . . .

ROCHESTER DENTAL MFG. CO.,

(Successors to Geo. P. Davis,)

Manufacturers of and Dealers in Dental Goods,

75, 77, 79 and 81 East Main Street,

ROCHESTER, N. Y.

1897.

Publishers of the Odontographic Journal.

Rochester Bental Mfg. Co's

LLLUSTRATED CATALOGUE

Dental Purniture



PRESS OF
FOSTER, DICK & CO.
PITTSBURGH, PA.

* *

ROCHESTER DENTAL MEG. CO.

Annufacturers of and Dealers in Dental Goods.

75. 77. 79 and 81 East Main Street,

ROCHESTER, N. V.

-TUB!

subdistants of the Odostographic Journal.

INTRODUCTION.

T is with much pride that we present to our customers and friends this very elaborate and valuable compilation of all the Dental Goods and Material that are worthy of the Dental Profession, and which you will recognize as the most complete Dental Catalogue that has ever been published, feeling assured that you will fully appreciate and continue to favor us with your liberal patronage as in the past.

In our experience of over thirty years in the Dental trade, very many valuable appliances and inventions have been introduced, advertised by circulars and in Dental Journals, but never catalogued; and Dental manufacturers, in issuing their own catalogues, have confined themselves strictly to their own make of goods, so that no general catalogue of all makes of goods could be found. We have seen by orders coming to us, how great this want of a complete catalogue must be realized by our customers, and decided on this large outlay of time and money to compile a complete list of all the desirable goods made by responsible manufacturers, not giving our own make of goods any preference over other manufacturers'. We feel assured that our customers will appreciate the convenience of so valuable and complete a book.

In our large new store we have all the different goods named from all manufacturers of merit. Our stock is complete; we are thus able to fill your orders with promptness and dispatch. Our factory has the best skilled labor and the latest and most improved machinery, so that we are able to produce such appliances as our new Rochester Vulcanizer and Noiseless Lathe, with hundreds of other equally valuable instruments and tools. in the highest degree of workmanship, which is so highly appreciated by our friends from the Atlantic to the Pacific.

In our illustration and description of goods, we have tried as far as possible to fully explain their merits and advantages, and where the goods are not our own make we quote the manufacturers' lowest prices, all of which we are prepared to furnish our customers. Regarding the prices, we might say that there has been so much competition and cutting of prices during the last two years, we are fully satisfied the figures here given are as low in most cases as first quality goods can be made, and prices are as low as they will ever reach.

ROCHESTER DENTAL MANUFACTURING CO.

Suggestions for Ordering.

Preface order with name of your Town, County and State, and write your own name distinctly. These may not be so familiar to shipping clerk as to heads of departments.

Orders to receive prompt attention should be addressed to the firm and not to employees.

In referring to former orders, give date as nearly as possible; this will facilitate investigations.

Specify whether goods are to be sent by mail, express or freight: If by express or freight, give name of line.

Confusion is liable to result if name of SENDER of any package sent us is not written or stamped upon the outside wrapper. We receive large numbers of packages daily; those bearing sender's name have first attention. Orders should not be enclosed in package, but should be mailed under separate cover.

With the exception of quantity rates on teeth, burs, etc., the prices quoted in this catalogue are net, but we allow a discount of 10 per cent. on \$150, and 5 per cent. on \$50 purchase (precious metals not included) for spot cash. Accounts will be opened with responsible persons, providing satisfactory reference is furnished. Otherwise cash must accompany orders.

Remittances should be made by express or post-office money orders, or drafts on New York or Chicago.

Strangers ordering goods C. O. D. should enclose a sufficient amount to guarantee good faith.

Goods become the property of purchaser when they leave the store. We exercise all possible care in packing, addressing and forwarding goods. Claims for delay or damage should be made to transporters of goods, who are responsible for their safe and prompt delivery.

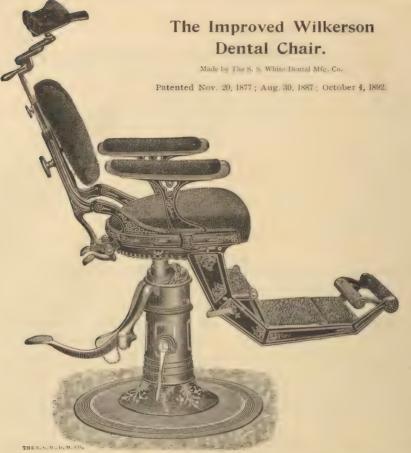
Goods by mail always at purchaser's risk. We address all mail matter correctly and stamp it properly; there our responsibility ceases.

Precious Metals Strictly Cash.



Furniture.

Our line of furniture is full and complete. Our customers are afforded the opportunity of comparing one style with another by a personal visit, otherwise we shall be pleased to furnish any desired information by mail. Special pamphlets covering all minor details will be mailed upon application.



DISK BASE.

The Wilkerson Chair has been in actual use for eighteen years. It has all essential movements. It rarely gets out of order, and when it does any mechanic of average intelligence can repair it. There are no complicated springs or ratchets about it.

A distinguishing peculiarity of the Wilkerson Chair is the extent to which the foot of the operator may be employed in its adjustment. Aside from adjusting the head-rest and elevating the back, every motion of the Chair may be controlled by the foot or knee of the operator, and without moving from the position at the side or back of the patient.

The lowest positions of the low, medium and high base Chairs are 20, 23 and 26 inches; the highest positions, 28, 34 and 40 inches.

The disk base has been substituted for the lower formerly used we can still furnish.

The disk base has been substituted for the legs formerly used; we can still furnish the leg base when ordered, but, unless otherwise specified, will send the disk form. Disk base at present made only in medium range chairs.

PRICES.
In Best Quality Green or Maroon Plush
In Crimson Plain Turkey Morocco or Leather
In French Finish Leather 150.00
In Cane
In Sealskin157.00
In Finest Green or Maroon Plush, puffed with Plush, trimmed with
Silk Cord, with Wilton Carpet
In Embossed Turkey Morocco, Crimson, puffed with Plain Morocco,
edged with cord, with Carpet to match
Fancy upholstery made to order only.

Watkins Sectional Head-Rest (see page 10), instead of regular Head-Rest, as shown, adds \$10.00 to these prices.

The High-Low Wilkerson Dental Chair.



The High-Low Wilkerson attains its great range by being set into the floor. The base at lowest point is 20 inches from the floor, while its highest positions are 37, 39 and 41 inches respectively.

PRICES.

	Best Qual										\$160.00
	Crimson										160.00
In	French F	inish l	Leather								160.00
In	Cane										160,00
	Sealskin										167.00
In	Finest G					ffed v	with	Plush,	trimmed	with	
	Silk Cor	d wit	h Wilto	n Carp	et						T80 00

In Embossed Turkey Morocco, Crimson, puffed with plain Morocco, edged with Cord, with Carpet to match .

Watkins Sectional Head-Rest (see page 10), instead of Regular Head-Rest, as shown, adds \$10.00 to these prices.

The Improved Wilkerson Dental Chair.

Made by The S. S. White Dental Mfg. Co.

With Supplemental Lift and Disk Base.

Patented Nov. 20, 1877; Aug. 30, 1887; July 12, 1892; Oct. 4, 1892; Nov. 20, 1894. Patented in England May 17, 1894.

The supplemental lift permits the chair to be raised either five or ten inches before the patient steps in. The chair is then elevated as usual.

The operation of the apparatus is simple, the weight of the chair body being almost perfectly balanced by springs, so that it may be raised five inches to the first notch, or through the entire range of ten inches, by lifting the body of the chair by the arm.

To lower the chair, take the weight, lifting as before, and having raised the catch

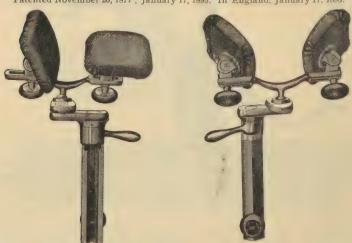
allow the chair to settle gently.

PRICES

TRICIA.	
In Best Quality Green or Maroon Plush\$175	.00
In Crimson Plain Turkey Morocco or Leather	.00
In French Finish	.00
In Cane	.00
In Sealskin 182	.00
In Finest Green or Maroon Plush, puffed with Plush, trimmed with	
Silk Cord, Wilton Carpet	.00
In Embossed Turkey Morocco, Tan or Crimson, puffed with Plain	
Morocco, edged with Cord, Carpet to match	.00
In Louis XVI Tapestry, puffed with Plush and trimmed with Silk	
Cord, Carpet to match	.00
Watkins Sectional Head-Rest adds ten dollars (\$10.00) to above prices.	
Price of Supplemental Lift, separately	.00

The Watkins Sectional Head=Rest.

Made by The S. S. White Dental Mfg. Co.
Patented November 20, 1877; January 17, 1893. In England, January 17, 1893.



The addition of this head-rest to the chair means greatly increased comfort to operator and patient. The pads may be placed in any desirable position and may be locked at any point. When sold with the chair this head-rest adds \$10.00 to its price. See pages 8, 9, etc. When ordered for chairs that have been in use, all parts shown in engraving are furnished; the head-rest cannot be supplied otherwise.

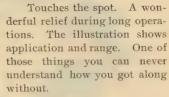
				1111111	
Watkins	Sectional	Head-Rest	for	Wilkerson Chairs	\$35.00
6.6	6.6	4.6	6.6	S. S. White Pedal Lever Chairs	40.00
6.6	6.6	6.6	6.6	Morrison Chairs	35.00
6.6	6.6	6.6	6.6	Archer and other wood back Chairs	37.00
6.6	6.6	6.6	6.6	Cycloid	33.00
6.6		6.6	6.6	S. S. White Swinging, 1st Style, Pedal	
Leve	r and Har	ris Chairs.			

Extras for Wilkerson Chairs.

Summer Seat of Cane\$	8.50
Summer Back of Cane, with Iron Frame.	
Wood Arms, of Mahogany	4.00
Head-Rest, of Mahogany, Leather and Arm-blocks	3.50
Linen Covers for Seat, Back, Arms and Head-Rest	
Caster-Shoes, set of four	
Caster-Shoes, set of two	

Body=Rest for the Wilkerson Dental Chair.





PRICE:

Upholstered in Plush, \$10.

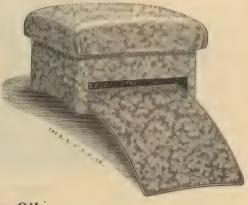


Child's Seat for Wilkerson Chair.

THE S. S. M. D. M. CO.

Covered with Wilton Carpet with mat for child's feet. The bottom of the seat is covered and made to fit the seat of the chair, so that when put in position against the back of the chair it is firm and secure. The price of this seat should not stand between you and comfort for your little patients.





Chair Oil.

• The oil we supply for the Wilkerson Chair is specially prepared for the purpose; it is the result of a long course of experiments in the effort to obtain a mixture of oils that would stand the variations of temperature without gumming. Several complaints have been received from dentists that their oil wells leaked, but on examination we have found that in renewing the oil they have put in too much—in fact, filled them above the packing of the oil well and in time it soaked through the packing and trickled down the outside of the well.

PRICES.

2 1/2	pints	for the	Wilkerson	Low-Base	Chair.			1.00
3/2		6.6	6.6	Medium				1.00
4	4.4	6.6	4.6	High				1.25
4	6.6	for the	Wilkerson	9 in. Hig	h-Low	Chair.	000000000000000000000000000000000000000	1.25
5	6.6	6.6	4.4	11 "	46	6.6		1.50
5	4.6	6.6	6.6	13 "	6.6	"		1.50
4	6.6	6.6	S. S. Wi	rite Peda	1-Lever	Chair.		1.25

The New Columbia Dental Chair.

Madetby The Ritter Dental Mig. Co., 563 and 565 N. St. Paul St., Rochester, N. Y.



NORMAL POSITION.

The New Columbia Chair is ahead of all others and intends to stay there. Before our chair was made, a Dentist was obliged to purchase two or three chairs in order to get a high or a low or a medium position, all three of which are combined in our chair, and he was obliged to stumble over long legs which projected from chairs, a feature we have done away with, with our round base, which has since been copied by every Dental Chair manufacturer in the U. S.

For prices see next page.

Send for complete Catalogue of Chairs and other Dental Furniture.

The New Columbia Dental Chair.

Made by The Ritter Dental Mfg. Co., 563 & 565 N. St. Paul Street, Rochester, N. Y.

Highest and Anæsthetic Positions.

Lowest Position, 20 inches.

Highest Position, 38 inches.



One of the most difficult problems in the production of a first-class dental chair has been to obtain the great range of vertical adjustment, which is desired to meet the wants of the dentists without incurring one or more objectionable complications, such as cutting of the floor of the operating room or the use of supplementary lifts or supports.

In the New Columbia we have secured any and all the positions required in dentistry without using any of the above named objectionable features.

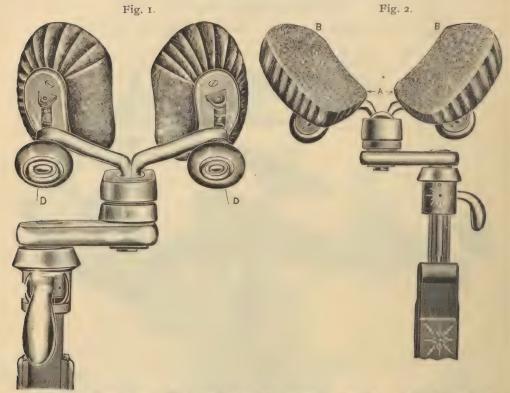
PRICES OF CHAIRS:

Best quality Mohair Plush with Wilton Carpet\$1	150
Plain Maroon Leather and Wilton Carpet	
Turkey Morocco Leather with Wilton Carpet	155
Finest Green or Maroon Plush with Wilton Carpet	
Seal Leather with Wilton Carpet	157

Ritter Sectional Head-Rest adds ten dollars (\$10) to above prices.

The Ritter Sectional Head=Rest.

Patented January 14, 1896.



With the Head-Rest, pads adjustable in any desired position to fit the head of the patient securely and comfortably, is an object which has long been sought for by dentists, but never accomplished before. The pads on our Head-Rest are not flat pieces of board covered with plush, but are hollowed out and fitted to the head, making them casy and comfortable at the same time, in no way interfering with or disarranging the hair. The arms supporting the pads are so adjusted by moving separately on a pivot in the center of the ball part, so that they can be extended from a position as shown in Fig. 2, changing from 112

inches, AA, to four inches, BB, which taper form is the shape of the head.

Each section acts entirely independent of the other and can be securely locked in any position desired by hand screw D shown in Fig. 1; the face position desired by most dentists can be secured in an easy and comfortable position for both patient and operator. The shape of the pads are made to fit the neck and head of a patient and does away with the tiresome wedge shape of all other adjustable head-rests, where the head rests on one point

of the pad only.

The locking device is very simple, one lever controlling the whole movement of adjusting the head-rest and raising and lowering at pleasure. It is very strongly made, one turn of the lever making it impossible to force the head-rest out of position. Any position in dentistry can be obtained with our head-rest, securing both ease and comfort for patient

and operator.

It can be adjusted to any New or Celebrated Columbia Chair. Any one wishing to substitute it for the regular head-rest, it will be necessary to send us the entire head-rest and sliding bar. The new Head-Rest will be supplied for sixteen dollars (\$16), but we cannot give credit for any part of the old head-rest, as we will not put worn parts in new

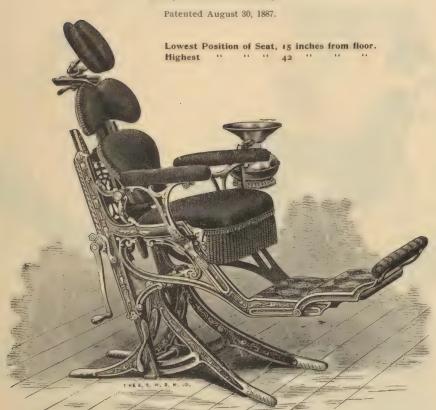
chairs, and have no other way to use them.

Our Head-Rest can be fitted to the Wilkerson Chair, from and including the ball part up, at a cost of sixteen dollars (\$16), and can be done by the dentist, but we prefer to

have the Head-Rest sent to us, thereby getting a perfect fit.

The Morrison Dental Chair.

Made by The S. S. White Dental Mfg. Co.



The principal elements in the wide popularity of the Morrison Chair are its extraordinary vertical range of movement, and the ease and rapidity with which it is raised and lowered. Owing to this great range, the dentist can operate with equal convenience whether sitting or standing.

The lower back-pad can be adjusted to the small of the patient's back, and the upper one raised, lowered, or entirely removed, as in operating for children.

The arms can be lowered so as to be entirely out of the way of the operator, or they can be clamped in intermediate positions.

The Chair has a reclining movement, and it may be securely clamped in any position by slight pressure on the foot-lever. The foot-rest has a wide range of movement, and can be adjusted by either operator or patient.

PRICES.

In Corded Upholstery (Student's Morrison)	0
In Best Quality Green or Maroon Plush or Plain Morocco	0
In Morocco, Embossed 110.0	
In Finest Quality Green or Maroon Plush, puffed and trimmed with	
Plush120.0	0

The illustration shows No. 4 Spittoon, No. 4 Bracket, No. 3 Socket, which are extra, and add \$8.00 to the above prices.

Watkins Sectional Head-Rest adds twenty-five dollars (\$25.00) to the above prices.

New Archer Pedal Lever Chair, No. 8,

Made by Archer Mig. Co., 9, 11 and 13 North Water Street, Rochester, N. Y.

Branch Office and Salesroom, 169 Canal Street, New York,



This Engraving shows the

NEW ARCHER PEDAL LEVER CHAIR, No. 8,

At its lowest point, and tilted back with back upright and Foot-Rest extended.

Archer's New Pedal Lever Chair, No. 8, with disk base, iron seat frame, and arms that can be reversed, making either a wide or narrow seat as desired; new adjustment back rod, quickly and easily operated. New governor, regulating the raising and lowering movement, making it firm, noiseless and smooth. These chairs have all the latest and best movements.

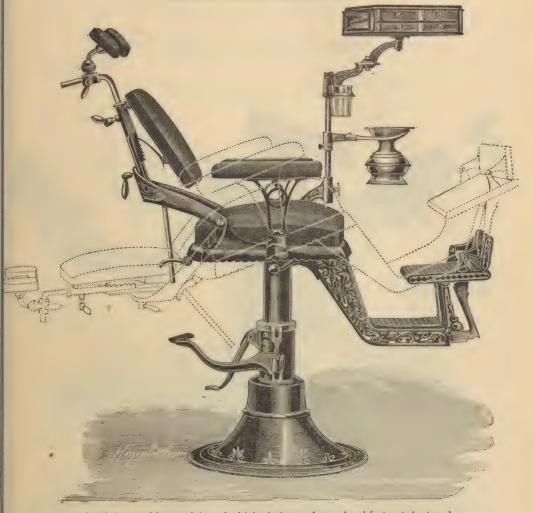
PRICE:

Finished in Japan \$80.00 Nickel or Antique Copper-plate, 95.00 Mohair Plush, any color.

New Archer Pedal Lever Chair No. 8.

Made by Archer Mfg. Co., 9, 11 and 13 North Water Street, Rochester, N. Y.

Branch Office and Salesroom, 169 Canal Street, New York.



In its highest position, upright and with back thrown forward and foot-rest shortened.

This cut illustrates our new Pedal Lever Chair No. 8, with Instrument Stand, etc. This stand can be raised or lowered to any height desired, and moved in any direction necessary for use.

Price of Chair, Japan finish, Mohair Plush,	0.00
'' 'Nickel or Antique Copper Plate or Japan Polished,	
Mohair Plush, 95	5.00
Price of Dental Bracket, Table and Cuspidor.	
Nickel or Antique Copper Plate, 25	5.00
Gold Catcher, extra	1.00

New Archer Pedal Lever Chair No. 9.

Made by Archer Mfg. Co., 9, 11 and 13 North Water Street, Rochester, N. Y.

Branch Office and Salesroom, 169 Canal Street, New York.



Raised to medium height, with back partly down and foot-rest extended.

Chair tilted to reclining position.

The most handsomely designed Chair ever offered to the Dental profession. All iron work is finished in Heavy Plate, Antique Copper, Bronze, Nickel or Ebony Japan polished. Every movement is quick, noiseless and firm. The double cylinder in base operates with ease and rapidity. Both the No. 8 and No. 9 Chairs can be converted into a child's chair in a moment, and they have every movement found in any chairs in the market.

New Archer Pedal Lever Chair No. 9.

Made by Archer Mfg. Co., 9, 11 and 13 North Water Street, Rochester, N. Y.



At its highest and upright position, with foot-rest shortened and back partly raised.

Price of Archer Pedal Lever Chair No. 9, finished in Nickel or Antique Copper Plate, or Ebony Japan polished and ornamented, upholstered in finest Mohair Plain Plush (any color), \$125.00. We can attach Dental Bracket, Table and Cuspidor, same as shown on No. 8 Chair, finished to match Chair, for \$25.00. Gold Catcher, \$1.00 extra.

The Cycloid Chair.

Made by The S. S. White Dental Mfg. Co.

Patented Dec. 28, 1875; July 3, 1877; Nov. 20, 1877; March 9, 1880; May 22, 1883; May 27, 1884; June 28, 1885.



The Cycloid Chair is light and yet well balanced. As a chair for examinations it is without an equal. It is well adapted to the needs of the beginner. It presents a handsome appearance and is an ornament to any office. The lifting mechanism is unique and has a range of ten inches,

PRICES.

Price, upholstered in Corded Material
"Best Quality Maroon or Green Plush
Watkins Sectional Head-Rest adds twenty-five dollars (\$25.00) to above prices.
The illustration shows No. 4 Spittoon, No. 4 Bracket, and No. 1 Socket, which are
extra, and add \$7.00 to above prices.
Child's Seat, of Walnut, extra

Archer's Iron Chair No. 7.

A well-known design, simple in construction. Valuable for extracting and examinations.

PRICES.

Chair and Footst	ool, finished in Cane	
Upholstered with	Green, Crimson or Brown Rep 32.00	
	Green or Crimson Carpet	
6.6	Green or Crimson Figured Plush or Leather 36.00	
**	Green, Crimson, Maroon or Brown Plain Plush 40.00	
Spittoon, No. 5,	(attached)	

Second=hand Chairs.

715

Sometimes one, sometimes a dozen, but always some in stock. Placed here on sale by our customers generally, but never stay with us a great while. We have plenty of room for new chairs, but very little for second-hand ones. It is the price that moves them and we turn them over in a hurry.

No matter what your wants in this line may be, let us know what they are. If we haven't it we can generally get it. You'll probably save some money by writing here. It is never any trouble to give full details about these goods. Our reputation is back of what we say about them.

The S. S. White Portable Dental Chair.

Made by The S. S. White Dental Mfg. Co.

Patented in the United States, England and Germany, April 30, 1895



In this Chair the different parts have all essential movements, affording comfort to operator and patient. Less than 10 minutes required for packing or unpacking. The seat has a range of 18 inches from lowest to highest position, and back has corresponding range.

has a range of 18 inches from lowest to highest position, and back has corresponding range.

The packing box is made of hard wood; dimensions in inches, 39x13x7½ inches deep. Chair and box, packed, weigh 88½ pounds.

Dr. O. C. White's Portable Head=Rest.

Patented July 6, 1875.

Has full movements in all directions and is adjusted by simply turning thumb screw. Dotted lines show range. Weight, 4¾ pounds.

PRICES.

No. 6, upholstered in Plush......\$8.00 No. 7, upholstered in Raw Silk..... 7.00

Hand Spittoons.

Suggested by Dr. Isaac Douglas.



Useful during extraction under nitrous oxide, as it can be held close up to the chin of the patient. Made of stout brass, nickel-plated. Size, 2 inches deep, 6 inches in diameter. Also made with a handle.

PRICES.

Portable Head=Rest No. 9.

Patented July 6, 1875.

Considerably heavier than Nos. 6 or 7. Works on a ball and socket joint. Metal portions made of steel and wrought and malleable iron, nicely japanned. Weight, 7¼ lbs.

PRICE.



The S. S. White Portable Head=Rest.

Patented January 6, 1880, and March 10, 1885.



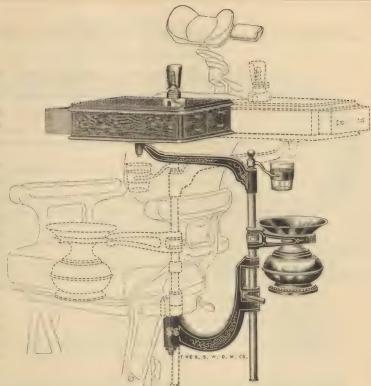
When folded up this Head-Rest occupies but little room and weighs but 5½ lbs. It may be attached to almost any form of chair. Has full and free movements in all directions. Upholstered in Green and Maroon Plush. Price, \$12.00.

Made by The S. S. White Dental Mfg. Co.

Combination Dental Chair Attachment.

Made by The S. S. White Dental Mfg. Co. Patented Feb. 8, 1876; November 20, 1877.

Almost a substitute for a cabinet. Table always where you want it, yet never in the way of operator or The best patient. chair is hardly considered complete without its combination attachment. The engraving shows method of attaching to chair, which is done securely by a heavy bolt. This attachment is made in the best manner and finely finished, the bright parts nickel plated. Adapted to the Improved Wilkerson Dental Chairs.



PRICES.

Con	iplete	with	1 Holmes Table and No. 4 Spittoon	į
		6.6	Allan Table, Glass Sides and No. 4 Spittoon 38.00	,
	6.6	6.6	" and No. 4 Spittoon (see cut) 35.00	
	6.6	6.6		
Other	spitte	ons	may be substituted at value (see page 30).	

The S. S. White Portable Tool Tray and Spittoon Stand.

We are also prepared to furnish a Portable Stand designed to be used instead of combination attachment. It is handsomely finished and may readily be moved from place to place. It combines the advantages of the attachment illustrated above with the exception that it is not designed to be attached to the Chair. Illustration and description furnished upon application.

PRICES.

Portable	e Stand,	complete,	with	Holmes Table	558.00
6.6	61	it '	6.6	Glass-side Allan Table	41.00
				regular Allan Table	
6.6	6.6	6.6		Rosewood Table	
Boxing.	*********				1.00

Attached Fountain Spittoon with Bracket Table.

Patented November 20, 1877; May 24, 1881.

A rod is furnished to bring Table to proper height. The Table Bracket swings on this rod.

PRICES.

Combination,	including	Fountain	Spittoon	complete	and	plain	Allan	Table	\$ 85.50
6.6	66	6.6		e e	6.6	imitat	'n Rose	ewood Table,	79.50
6.6	6.6	"	"	6.6	6.6	Glass-s	side Al	lan Table	88.50
6.6	6.6		6.6	6.6	6.6	Holme	s Tahl	е	TO2 50

Combination Attachments for the new Columbia Chair.

Made by Ritter Dental Mfg. Co.

Dental Bracket No. 1, and Spittoon.

For illustration, see cut of chair, pages 12 and 13.

Our Combination Dental Chair Attachment No. I is the most complete that has ever been placed on the market, being attached to the chair directly under the seat, and is glided back and forth II inches on a counter-balance, causing it to remain stationary when desired without having to clamp it.

It has an upright standard rod or support, at the top of which is a swinging glass-holder, and directly below is the table bracket arm. The bracket table is attached to the arm with a socket, which gives the table a horizontal, pivoted movement, allowing it to revolve. It is provided with a spittoon-holder having a vertical range of 14 inches. It also has a swinging extension-tube movement, so that it can be swung out of the way when desired. The standard has a vertical range of 14 inches, and is locked securely at any point by a small hand-lever, No. 9.

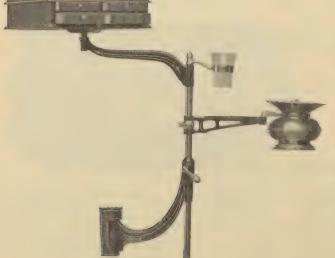
This attachment is finely finished, nickel-plated and striped, and can be attached to any dental chair provided for an attachment.

Prices of Dental Bracket and Spittoon.

Bracket complete with Spittoon	and Holder	\$25
Spittoon		3
Holder (New)		2
Bracket	****************	20

Bracket No. 2.

Our No. 2 Combination Dental Chair Bracket is attached to the chair directly under the seat. It has an upright standard or support, which carries a swinging glass-holder at the top; below this is the bracket arm to support the bracket table. The arm has a horizontal pivoted movement, allowing it to revolve. The spittoon bracket has a vertical range of 14 inches, and can be locked securely at any point.



PRICES.

Bracket complete with Spittoon and Holder....\$18

Bracket complete with Spittoon and Holder and No. 1 Table...... 24

Bracket complete with Spittoon and Holder and No. 2 Table...... 28

Bracket complete with Spittoon and Holder and No. 3 Table...... 33

Bracket complete with Spittoon and Holder and Holmes Table..... 40

Bracket complete with Spittoon and Holder and No. 4 Table 19

Saliva Ejector.

Suggested R. R. Andrews, D. D. S., Cambridge, Mass.

Made by The Boston Dental Mfg. Co.

BUSTON DENTAL MEG. CO



This instrument is designed to obviate the constant annoyance to the operator, and pain to the patient, which has been found in the old styled instrument, by the drawing in of the tissues of the mouth.

The air tube extending from A to B conducts a constant current of air, thereby preventing the drawing in of the tissues into the inlet holes in the bulb of the Ejector.

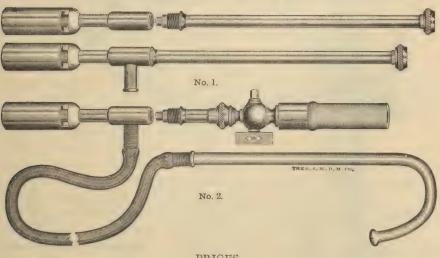
Being made of metal it can be sterilized or boiled, thereby insuring cleanliness.

The end of Ejector is arranged to fit improved connection manufactured by S. S. White Dental Mfg. Co.

Price, each......\$1.00.

Improved Saliva Ejectors.

Made by The S. S. White Dental Mfg. Co.



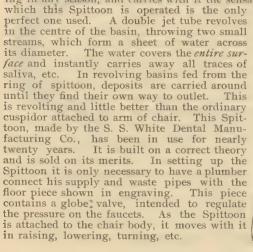
TRICES.					
No. I is the Ejector used on Fountain Spittoon. Price with 4 feet Silk-covered Tubing and Glass Mouth-piece					
The same with Plain Tubing 5.00					
No. 2, which operates precisely the same, can be connected by rubber tubing to any ordinary faucet, as of wash-basins. Price with 4 feet Silk-covered Tubing and Glass Mouth-piece					
The same with 4 feet Plain Rubber Tubing					
Extra Glass Tubes for Saliva Ejectors, per doz., 50 cents; each, 5 cents.					
For Simonson's Glass Tubes, see page 26.					

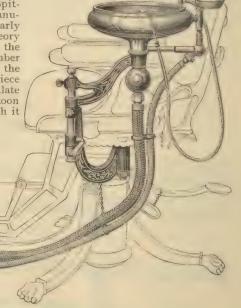
Improved Attached Fountain Spittoon.

Made by The S. S. White Dental Mfg. Co. Patented November 20, 1877; May 24, 1881.

Applicable to Wilkerson or Columbian Pedal Lever Chairs.

With water pressure available, the modern dental office should always be equipped with a Fountain Spittoon. It is the acme of cleanliness. The sound of running water is refreshing in any season, and carries with it the sensation of extreme cleanliness. The system by

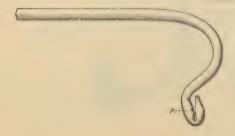




PRICES.

Spittoon complete, with Saliva Ejector and Gold Trap
" without Gold Trap 66.00
"with Double Faucet, without Saliva Ejector, with Gold-Trap 64.00
Spittoon with Double Faucet, without Saliva Ejector or Gold-Trap 60.00
Spittoon with Single Faucet, with Gold-Trap 58.00
without Gold-Trap. 54.00

Directions for setting up and regulating Fountain Spittoon accompany each Attachment sold.



Dr. Simonson's New Glass Saliva Tube.

The orifice at A being protected by the turnedup end of the Tube, the mucous membrane of the mouth will not be drawn into it, and it will be less liable to obstruction from any cause. Adapted for use with Improved Saliya Ejector.

Price.....per doz., \$1.00; each, 10 cents.

Improved Adjustable Fountain Spittoon.

Made by The S. S. White Dental Mfg. Co.
Patented May 24, 1881.

Recent improvements are the running of the supply pipe outside of the basin, which gives more room and prevents splashing; and the making of the tumbler-holder in the form of a bowl, so placed that any overflow passes into the basin.

The separate appliance (shown on opposite page) is known as the Improved Adjustable Fountain Spittoon. basin is mounted on a telescoping standard, ball-and-socket joints at the top and bottom of which give it a universal adjustment. The water supply is governed by a globe valve in the base and passes to the basin through silk-covered rubber tubing, the standard acting as a conduit for the waste water. The top of the basin in its lowest adjustment is 29 inches from the floor; at its highest, 44 inches. In the former position the center of the basin may be placed anywhere within a circle 13 inches in diameter; at its greatest height this circle is 23 inches in diameter. Within these limits the basin may be locked at any point or inclination. The diameter of the basin has been increased from 9 inches to 101/2 inches.

The appliance is well made and handsomely finished, the base and standard japanned and ornamented.

Complete, with one Faucet without Saliva Ejector,......\$58.00

Boxing.....\$2.00



Snow's Saliva Ejector.

Manufactured only by the Patentee, Geo. B. Snow, Buffalo, N. Y.

Made in two styles, "Wall" and "Standard."

Cleanly, Efficient, and Noiseless in Action.

Operates Independently of a Water Supply.



This apparatus has now been in use for over fifteen years, and it ranks among the necessities of the operating room when a water supply is out of the question.

It is made in two forms, the "Wall," which is suspended on the wall near the operating chair, and the "Standard," which is supported by a base of cast iron which covers the receiving vessel, and is portable. The construction of the two does not differ, so far as the operating parts are concerned. The Standard Ejector can be moved about, and set close to the chair when in use; thus operating with a shorter connecting tube, and consequently more freely.

The operation of the device is as follows: The valve of the upper reservoir is opened sufficiently to permit the water to escape therefrom at a rate of about two drops per second. It passes down through a tube of very small bore, each drop filling the calibre of the tube and acting as a piston; and finally escaping, carrying with it the air included between the drops; thus producing

a partial vacuum. This draws the saliva from the mouth through the mouthpiece and its connecting tube. The amount of water used is so small that the reservoir contains enough for a protracted operation.

The Rollins Bottle, the suggestion of Dr. W. H. Rollins, of Boston, Mass., is a valuable addition to the Saliva Ejector. This is shown in connection with the Wall Ejector, but is applicable to either. The bottle is placed under the chair; the saliva falls into it, and it is thus kept entirely separate from the water used to operate the apparatus. The latter thus remains in a more cleanly condition, and operates with more freedom.

By using the Rollins Bottle, the Ejector can be set at a distance from the chair without impairing its efficiency.

PRICES:

Standard Ejector, japanned and ornamented,	18.00
Wall Ejector, on neatly finished oak board,	13.50
Rollins Bottle, extra,	1.50

Four feet of rubber tubing goes with each Ejector, and three with each Rollins Bottle.

The Pneumatic Saliva Ejector.

Invented by H. W. Wellman, D. D. S.

Made by Chas. Oehlman, Quincy, Ill.



Patent applied for.

This Ejector is made on a scientific basis, yet is simple in its construction, and will do the work equally as good, if not better, than the fountain spittoon; is cheaper than any other Ejector ever used; is self-cleaning, and is therefore always ready for use. The Ejector will connect with any size spittoon and is operated with a rubber bulb by the patient. It is constructed of silk-covered rubber tubing, hard rubber valves, metal ends, nickel-plated, and mouth-piece of glass, and is the simplest and neatest Ejector ever offered to the profession.

Cuspidors or Spittoons for Dental Chairs.

Manufactured by H. D. Justi & Son, of Philadelphia and Chicago.



Heavy Spun Brass, Nickelplated, including Gold Catcher......\$4.00



Cap and Gold Catcher for No. 2.



Spun Brass, Nickel-plated, including Gold Catcher\$4.00



Section of No. 1, showing Fastening.



Glass Funnel for Nos. 1 and 4......75 cents.



Light Spun Brass, Nickelplated, including Gold Catcher and Cap. . \$1.50

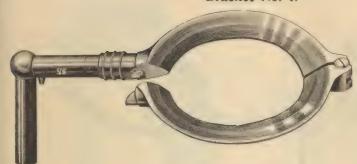


Nickel-plated Funnel, three sizes, 91/2, 10 and 101/2 in. diam., 53/8 deep, Gold Catcher, each......\$2.00

Spittoon Brackets.

Made by The S. S. White Dental Mfg. Co.

Bracket No. 1.



Well finished, strong and durable. The hinged joint and the locking device with projecting support are very valuable features.

Price, without socket, \$5.50

Bracket No. 4.

Opened or closed by slight push at A. No possibility of accidental opening.

Price, without socket.....\$2.50

No. I.

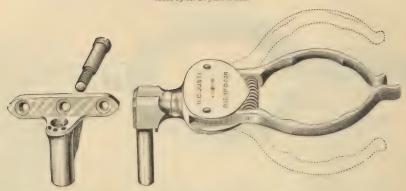


For prices and descriptions of other Cuspidor Clamps, see page 32.

No. 2.

Universal Cuspidor Clamp.

Made by H. D. Justi & Son.



This Clamp is designed to hold any of the metal cuspidors used on dental chairs.

As dentists are aware, these Cuspidors, made by different persons, vary much in size; and having bought one of the common clamps with a cuspidor to fit, he is extremely likely to find the next one he buys will be too small to be held securely or too large to enter the clamp at all.

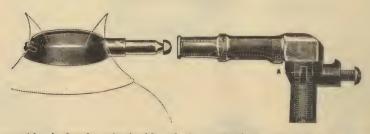
By purchasing Justi's Universal Cuspidor Clamp all this trouble is avoided.

The jaws of the Clamp have a wide range of motion as will be seen by the dotted lines in the cut, and by the spring they are firmly closed upon the Cuspidor so that there is no danger of its being thrown out by any accident.

Price,	including	Socket	for	Wilkerson	or	Archer	Chair\$	3.00
6.6	6.6	6.6	6.6	Morrison	Cha	ir	*************	4.00

Cuspidor Holder No. 1.

Made by the Ritter Dental Mfg. Co.



No. 1 Holder is fitted to the inside of the neck of the Cuspidor, in no way interfering with mouth of same, and is the most convenient of any holder made, being detached from the Cuspidor by pressing the lever A, underneath the holder, as shown in cut, leaving a handle on the Cuspidor, allowing it to be cleaned without soiling the hands; also does away with rubbing off the nickel plating on outside of Cuspidor.

No. 2 Holder is like No. 1 Holder, except, instead of fitting inside of Cuspidor, it clamps around outside of neck of Cuspidor if so desired.

PRICES.

No. 1 or No. 2	Holder	\$2.00
	with Gold Catcher	
	with Cap	

Dr. I. W. Lyon's Improved Adjustable Stool.

Made by The S. S. White Dental Mfg. Co.



The dentist who uses an operating stool in his practice lengthens his days. The position of this stool can be changed by placing the heel upon the treadle, without rising from the stool.

The inclined position (shown in the cut) gives a peculiarly agreeable sensation of rest and comfort, the seat coming up well at the back, thereby supporting the spine, giving freedom of action to the limbs, and allowing the feet to rest upon the floor, dispensing with the necessity of a foot rest. The Stool is now in use by many leading dentists, who speak of it in the highest terms of praise.

The top of the Lyons Stool revolves and may be raised from 23 to 35 inches from the floor and made fast at any point. Covered with green or crimson plush or leather.

PRICE.

No. 1, Japanned Black, gilt or figured band, nickel-plated lever......\$16.00

Dentist's Visiting Case.

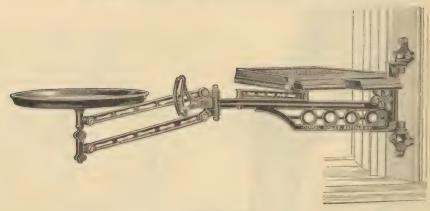
Suggested by Dr. E. C. Moore.



For use in case of emergency. Contains the necessary appliances and medicaments for relieving aching teeth, treating abscesses, etc. Convenient size for the pocket. With it the necessary relief can be given until an appointment at the office can be made.

Price......\$9.00

B. D. M. Co.'s Two=Table Bracket.



Patent Pending.

This Bracket is made wholly of iron, japanned and ornamented. As will be seen in the illustration, it is furnished with two tables. (A feature not presented in any other bracket). The second table is carried on an arm that is attached to, and swings on, the main frame, and can be extended towards the operator about nine inches. Attached to the outer end of the frame are parallel arms, supporting the main or working table swinging horizontally and capable of being raised or lowered and sustained in position by a segment and pawl.

This arrangement of two tables or trays on the same Bracket is believed to be convenient and desirable, as it affords abundant space for all instruments within easy reach of the operator, and obviates the necessity of opening or closing the table drawers over the lap of the patient.

The square table is black walnut, and has two drawers extending through it, and opening from either side, for holding files and other small instruments. The round or rose table is made of papier-mache, without drawers, and is beautifully ornamented with sprays of roses.

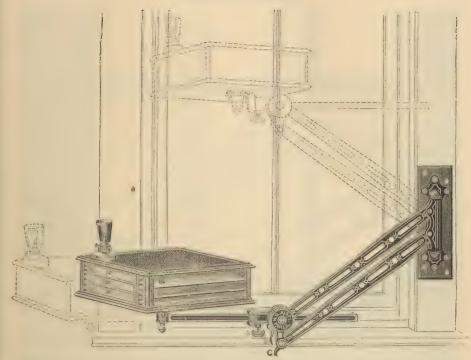
The B. D. M. Co.'s Bracket is sent out with a round table and a square table containing two long drawers. It can however be furnished with any of the square tables—in place of the one shown above—now in market at the list price of such tables.

The length when extended in a straight line is about four feet.

В.	D. M.	Co.'s	Two-Table	Bracket complete as shown in the illus	-
	tratio	011		***********************	\$13.50
В.	D. M.	Co.'s	Two-Table	Bracket without Square Table	11.00
В.	D. M.	Co.'s	Two-Table	Bracket with Allan Table (White's)	23.00
В.	D. M.	Co.'s	Two-Table	Bracket with Allan Table, glass sides	
	(Wh	ite's).		***************************************	26.00
В.	D. M.	Co.'s	Two-Table	Bracket with Holmes' Table (White's).	41.00
В.	D. M.	Co.'s	Two-Table	Bracket with Allan Table (Justi's)	20.00
B.	D. M.	Co.'s	Two-Table	Bracket with Allan Table, glass sides	20.00
	(Just	i's)	• • • • • • • • • • • • • • •		22.00
В.	D. M.	Co.'s	Two-Table	Bracket with Grigg Table (Justi's)	26.00

The Handy Bracket.

Made by H. D. Justi & Son.



There's a story told in the above picture that would require a whole book if told in words.

It is a story of combined conveniences. It is a story of improvements and progress. It is a story of a thousand and one dental bothers and worries done away with.

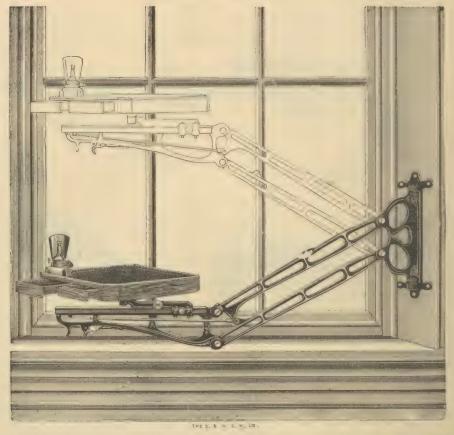
The Handy Bracket does what you want it to do. It goes up, down, sideways, around. It stays where you want it to stay. It will stand an astonishing amount of ill-usage, and it will give an equally astonishing amount of satisfaction.

The Grigg Table shown in the illustration, is described on page 41.

Handy	Bracket	with	Table	No. 1	,		• • • • • • •			\$12.00
	6.6	4 6	6 6	No. 2	, Lam	p and	Shield	,		14.00
6.6	6.6	6.6	Grigg	Table	, "	6.6	6 6			24.00
6 6		6 6	Allan	66	Plain	Sides,	Lamp	and	Shield,	18.00
6.6			6.6		Glass	6.6	6.6	4.4		21.00
6.6	" No). 2,	6 6	6 6	6.6		'' Lar	np an	d Shield,	5.00
Allan	''Plain	Side	s, ''	6 6	6.6				· · · · · ·	9.00
6.6	''Glass	"	6.6	٠.	6.6		66 60			12.00
Grigg	'' cove	ered '	with C	loth or	Leatl	ier, La	amp an	d Sh	ield,	15.00

The S. S. White Tool Bracket No. 1.

Patented. Reissue May 20, 1879.

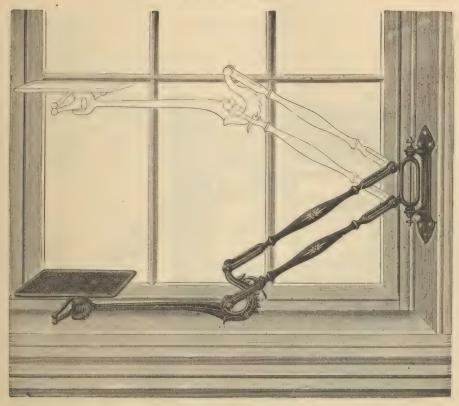


In this Bracket the tray has a horizontal adjustment of 15 inches, which, with the reach of the pivoted arms, permits it to be swung 45 inches from the wall. The cut shows the highest and lowest relative positions. It is raised by lifting the weight to the desired height, an automatic lock holding it wherever placed. To lower it, grasp the handle near the end of the carrier-frame, and compress the trigger with the finger, when the table sinks to the required level; releasing the trigger locks it. Both movements are simple and require but one hand. The tray shown is the ordinary imitation rosewood table (see page 42).

S. S. White Tool-Bracket, Japanned, without Table,\$10.00
The same, with Plain Imitation Rosewood Table, with Lamp and
Shield 16.00
The same, with Plain Allan Table, with Lamp and Shield, 22.00
"Glass-Side Allan Table, with Lamp and Shield 25.00
" Holmes " " " " " 40.00
Boxing
See page 42 for illustration of Allan Table.
" 42 " " Holmes "

The S. S. White Tool Bracket No. 2, with Table.

Patented September 18, 1894.



This Bracket and Table combines simplicity of construction and convenience in the highest degree. The cut shows the arrangement of its parts so clearly that but little description is needed. When fully extended it reaches 52 inches from the place of attachment. The variation in the height of the Table is 23 inches. By the adaptation of the parallel bars B, the horizontal extension may be shortened 15 inches. For this movement a slight push on the edge of the Table is all that is required.

When the arms B are in position at right angles with the Bracket, the Table may be made immovable by pressing the arms on both sides in the same direction, either forward or backward. To raise the Table, lift the Bracket, and the ratchet and trigger, A, acting automatically, will hold it at any desired height. The Bracket is Japanned and ornamented in bronze.

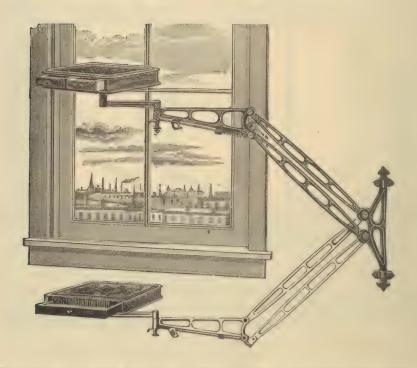
The Table is twelve inches square, covered. The edges are raised about a quarter of an inch, to prevent instruments from rolling off when it is moved. It is put together in the strongest manner, and it is so firmly braced that it is impossible for it to warp.

We do not hesitate to say that this is in every way the best and most convenient Bracket and Table ever offered at the price.

Price, complete as illustrated.....\$10.00

Bracket No. 4.

Made by The Rochester Dental Mfg. Co.



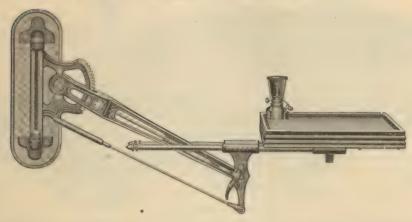
This Bracket is made very light, artistic, strong and easily adjusted. Extends out from the wall four feet, or turns back close to the same. The table raises and lowers, thirty inches.

The table here shown is made of either walnut or cherry, with plush cover, has three drawers, the largest of which has a swing rack for holding engine burs, etc.

Any table can be used on this Bracket.

Price of	Bracket	8.00
Price of	Bracket and Table as shown	12.00

The Wilmington Bracket No. 1.



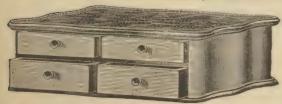
This Bracket is designed to combine strength, beauty and adaptability. The castings are of malleable iron, the rods of steel and brass. Raising or lowering is accomplished with one hand by compressing the trigger, the Bracket is firmly held in place by the four teeth on the catch. To slide the table in, or pull it out, grasp the casting under the table, and slightly raise same when pushing or pulling. The table is carried on a turn-table, giving it stability, and the horizontal range of twelve inches is due to the sliding parallel bars. The extreme limit of the swing from the wall is forty-six inches. The finish is handsome; japanned, and ornamented, with the steel and brass parts heavily nickel-plated. The tables are made in the best possible manner for beauty and durability, and can be relied upon. We can furnish the tables made of either mahogany or walnut. An alcohol lamp, stand and frame-shield furnished with each one.

PRICES.

Bracket	with	Plain '	Tab	1e	\$	2.00
* *		Allan	6.6	plain	sides	15.00
	6.6	4.6		glass	((18.00

Bracket Table No. 3.

Made by Ritter Dental Mfg. Co.



This Table is 13½ inches square and 4½ inches high, side, back and front being convexed, making a very fine table; can be had in quartered oak or mahogany, piano-polish. It has four continuous sliding drawers, divided into four parts, the lower ones having rack for engine burs, disks, etc.

Bracket Tables.

Made by The Ritter Dental Mfg. Co.

Bracket Table No. 1.



This Table is 12 inches square, 2½ inches high, having two drawers extending the entire width, and can be had in walnut, oak or mahogany, piano-polish.

Bracket Table No. 2.

This Table is 12 inches square, 3½ inches high, and contains five drawers, two of which extend the entire length of the table and contain two small sliding drawers; these are divided in four parts. The large drawer contains bur-racks. This Table is made in oak or mahogany, piano-polish.



Bracket Table No. 3—see page 39.

Bracket Table No. 4..

This Table is 12 inches square, covered. The edges are raised about a quarter of an inch, to prevent instruments from rolling off when it is moved. It is put together in the strongest manner, and it is so firmly braced that it is impossible for it to warp.

Holmes Table.



E This handsome Bracket Table is made from the finest selected woods, either in oak, walnut or mahogany, piano-polish. It is 18 inches long, 15 ½ inches wide, and 4½ inches deep. The four drawers are made the entire length of the table, and can be opened from either end. The wings on each side contain brass nickel-plated racks for engine bits, disks, burs, etc. These racks are underlaid with leather, allowing the burs, etc., to be raised from underneath.

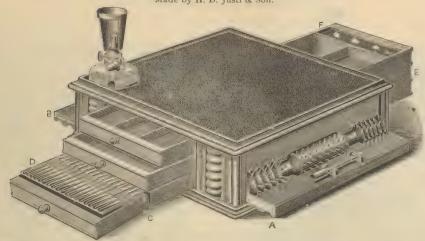
A nickel-plated cotton-holder containing a spring which always keeps the cotton ready for use, is attached to one side.

It is the best table on the market. Our trade-mark is on each table.

The Allan Tables, which are so well known that no other description is necessary, have an extra-fine finish, in walnut, oak or mahogany.

The T. H. Grigg Bracket Table.

Made by H. D. Justi & Son.



The first thing to recommend the Grigg Bracket Table is its size. It isn't too big to be in the way, and it isn't too small to be useless. Its size is just right.

No convenience is omitted that it ought to have, and none is present for which there

is no actual need.

The Tables are made of Oak, Walnut and Mahogany The wood won't shrink or expand or warp, because it is thoroughly seasoned. This means that none of the drawers will be contrary. They will come out easily when you pull, and go back just as easily when you push.

There's a place for everything in it. A dentist can do his work better, more quickly, more satisfactorily to his patient with this Table than with any other. No question about it.

Send for a circular that does the Table fuller justice.

Grigg Table, covered with Cloth or Leather, including Lamp and Shield..........\$15.00

Bracket Table No. 2.

Made by H. D. Justi & Son.



Constructed in the same manner as the Grigg Table, namely: to prevent shrinkage and insure the utmost durability; it is also provided with the same beveled moulding, dispensing with the cord formerly used, which leaves no place for dust to accumulate.

							PRICES					
Small	l Tal	ole,	No.	I,	covered	with	Cloth o	r Leather				3.00
6.6	6	6	No.	. 2.	6.6	6.6	6.6	6.6	Lamp	and	Shield.	5.00
Allan	6.6	P1	ain	Sid	es, ''	. 6	4.4	. (6.6	6.6	9.00
6.6	6.6	G:	lass	6.6	6.6	4.4	4.4	* *	6.6	6.6	6.6	12.00

Cheap Allan Tables.

We can supply a low priced Allan Table when desired.

PRICES.

Not including Lamp and Shield.

Veneered Sides	6.00
Beveled Glass Sides	8.00

The Allan Bracket Table.

Made by The S. S. White Dental Mfg. Co.

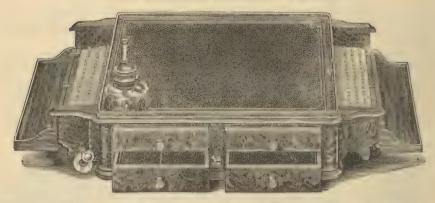


No other firm pretends to make as good an Allan Tableas the makers of this. It is the original. The best. It couldn't be better made if it cost double the price.

Cheaper Allan Tables are made by others. Cheaper tables. Cheaper

price.

The Holmes Bracket Table.



Plain Imitation Rosewood Bracket Table.



A plain Table containing two drawers, opening on but one side. Table is covered with fine cloth. Any other material substituted on order.

Linen Covers.

	p the dust away from your table when not in use by use of these	
For	Imitation Rosewood Tableseach,	\$.90
4.6	Allan Tables	1.10
6.6	Holmes Tables	T. 20

The Bracket Cabinet.

Made by Lee S. Smith & Son, Pittsburgh, Pa.







Closed.

The illustrations on opposite page convey but a slight idea as to the utility and positive merit of the design of this Case.

The trays, six in number, swing upon an upright rod securely fastened inside the door at right of Cabinet. One of these trays is round, and being swung upon a casting which curves around it, it may be swung into a position directly over the chair. The other trays are somewhat triangular in form, and while they are easily swung into position they do not extend quite so far.

Instruments, filling materials, forceps, etc., placed upon these trays, are instantly swung forward, each class by itself, when wanted, and when not in use are as quickly disposed of.

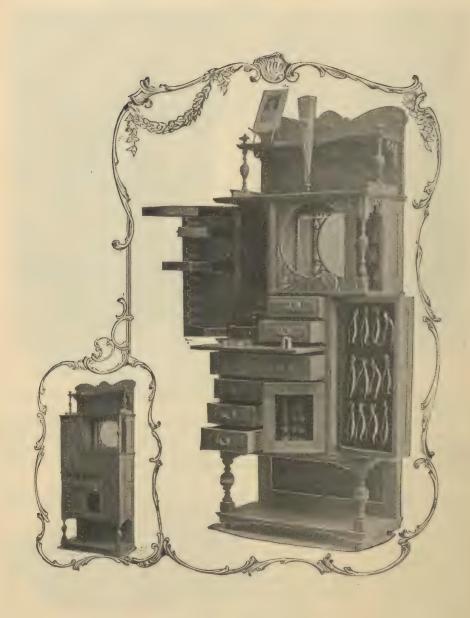
A series of 9 drawers is provided for other instruments, also a slide for mixing cements. The base of the case is provided with four larger drawers, as shown. The roll top conceals all medicines when not in use.

The case is regularly made only in antique oak, but other woods will be substituted on order. The workmanship is of the best. Every inch of space is util-The Bracket Cabinet occupies less room, considering its immense tray and drawer space, than any other made.

DIMENSIONS:

Height to top of ornament, 6 feet 3 inches. Width, 24 inches. Depth, 18½ inches.

Price, with Beveled Plate Glass Door, \$55.00.



Dental Cabinet No. 75.

Patented December 4, 1894.

This Cabinet, at first built only in quarter-sawed oak for the American trade, has been received with so much favor, not only on this continent, but in foreign countries, that other varieties of wood are now used in its construction, to meet the demand from localities where oak is not as popular as it is in America.

Mahogany unquestionably leads all other cabinet woods in popularity and seems to pass current nearly everywhere. For the Australian trade walnut is the staple. Therefore this Cabinet is now made in mahogany, quarter-sawed oak and walnut.

All portions of the interior which are exposed to view when the Cabinet is opened, are lined with a wood affording a pleasant contrast with the exterior. The mahogany is lined with white maple, the oak and walnut cabinets are lined with solid mahogany.



In the upper left corners a swinging section, containing twelve swinging drawers, supported by a hinge designed and made especially for this purpose. The hinge is ornamental, strong and rigid, and will not allow the drawers to sag. Several of these drawers may be opened and access had to each at one time.

This swinging section closes upon three sliding drawers, intended for gold, and upon three shelves.

The medicine case is in the upper right corner of the Cabinet behind a sliding beveled mirror. A

partition separates this compartment from the opposite corner of the Cabinet and prevents corrosive fumes from the medicine case reaching the instruments. One of the two drawers of the medicine case is intended for rubber dam, and is divided into three compartments; the one in the rear for waste, the middle one, having a hinged cover, for a roll of dam, and the front one for scissors and unused pieces.

The lower right corner of the Cabinet is a swinging section containing twelve hooks for forceps. The back upon which the forceps hang is slightly inclined to give them sufficient contact to prevent their swinging when the section is opened or closed.

The cabinet work is of the highest order. Every detail, no matter how trival it may seem, is carefully looked after. All open sawed work is of three-ply wood to insure strength and stability. All panel rebates are treated with pearl beading, and every visible surface in or upon the cabinet is superbly finished. All trimmings are bright cast brass, lacquered to prevent tarnishing, and every drawer is lined with cabinet cloth.

Dimensions.—Height, over all, 75½ inches. Height of top, 59½ inches. Width of Cabinet when closed, 30 inches; when open, 47 inches. Depth, 15 inches.



Mahogany	\$90.00
Quarter-Sawed Oak or Walnut	75.00



Dental Cabinet No. 15.

Patented March 31, 1891.

This Cabinet is convenient in arrangement, of good appearance, and has a fine finish.

The base is divided by a vertical partition extending from front to back. The left compartment has one shelf in it and is closed with a door swinging to the left. The other half of the base has a fixed panel in front, and has three drawers accessible from the side.

The deep drawer near top of base is intended for forceps, and immediately above it is a tray-drawer, lined with cabinet cloth.

The two wings of the top have doors in the sides, and each contains a shelf. The upper panels of the wings are beveled French mirror plates, as are also the two large panels on the door between them.

The door to the central compartment is in reality a swinging cupboard containing shelves for medicines, and access to it is had by opening a door when the cupboard is swung out.

This central compartment, at first made to contain twelve drawers, as shown in cut, is now made with fifteen drawers, five very shallow drawers having been substituted for the two drawers immediately above the bottom drawer. All of these drawers are lined with cabinet cloth except the bottom one, which contains a perforated block, and will hold about twenty dozen engine instruments.

This Cabinet is built of Quarter-sawed Oak, Walnut and Cherry. All trimmings are bright cast brass, lacquered.

Dimensions.—Height over all, 6 feet; height of base, 3 feet; width, 2 feet 7½ inches; depth, 1 foot 6 inches.

PRICE, \$50.00.



Cabinet No. 40.

Patent applied for.

There are at least four characteristics in this piece of furniture which make it a favorite with the Dental Profession: its novel drawer arrangement, its convenient medicine compartment, its simplicity of design and mechanism, and a rich appearance, which is emphasized by a graceful swell front, a harmonious selection of trimmings and the best of finish.

Two features entirely new in Dental Cabinets are embodied in it. One is a series of semi-circular trays for instruments. These trays, when closed, have the appearance of drawers. When open they are entirely outside of the Cabinet, and the instruments upon them are in the most convenient and accessible situation. The upper tray has a rack for excavators and a block for excavating burs, the next tray has a rack for pluggers and a block for finishing burs, burnishers and mandrels. The excavating instruments may be entirely put out of the way when they are no longer needed, and the plugging and finishing instruments may be swung out of the Cabinet, ready for use. The lower two trays are for upper and lower forceps, respectively. These trays swing on a steel rod in metal bearings. They are easier opened than drawers, cannot fall to the floor, and are so rigid that they cannot sag.

The other new feature is a system of rotating adjustable shelves for medicines. These shelves are contained in a small closet in the upper right corner, and though they occupy but little space, they present a shelf "frontage" of about 56 inches.

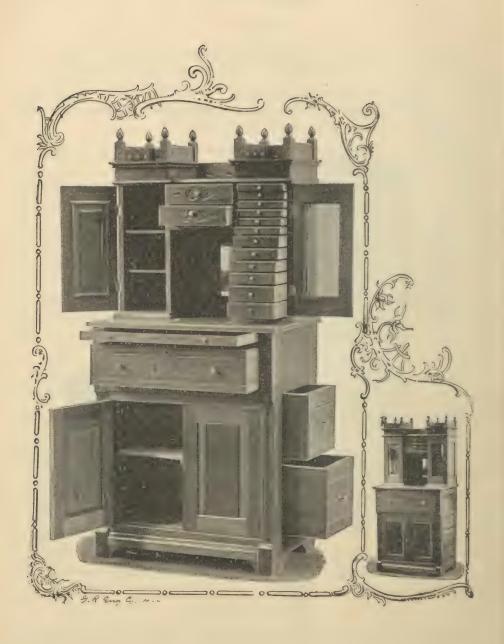
The six swinging drawers in the upper left corner, the gold drawer under them, and the four swinging trays are lined with cabinet cloth.

This Cabinet represents the newest ideas and the most useful improvements in Dental Cabinets. The workmanship is of the highest order and the finish is elegant and durable. In workmanship, finish, convenience and appearance, it surpasses any other cabinet ever before offered for the same price.

Height (not including top ornament), 4 feet 7 inches; width, over all, 2 feet 2 inches; depth, over all, 1 foot 5 inches.

PRICE, \$40.00.

The door of medicine closet can be fitted with a beveled French mirror, instead of wood panel, for an extra charge of \$2.50.



Cabinet No. 10.

This Cabinet was the first popular cabinet put on the market, and its popularity was an incentive to imitation. But the No. 10 Cabinet has steadily maintained its lead over imitations because of the superiority of workmanship and finish.

Under the two drawers connecting the two wings of the top is a beveled mirror. The medicine case on the left is entirely separated from any other compartment of the Cabinet. The instrument drawers on the right are removed and securely protected against corrosive fumes from the medicines. The shallow drawer under the top is lined with cabinet cloth. The larger drawer under this is intended for forceps and contains a sliding tray, increasing the capacity of the drawer 50 per cent.

This Cabinet is also made with the two lower drawers in the base opening from the front instead of the end.

The panels in the two doors of the top are ordinarily of wood, but a plate of beveled French glass will be substituted in the door closing over the instrument drawer and a beveled mirror in the door of the medicine case, if so ordered.

These Cabinets are built of oak and of walnut, trimmed with bright cast brass trimmings of latest design.

Dimensions.—Height over all, 5 ft. 3 in.; height of base, 3 ft.; width, 2 ft. 6 in.; depth, 18 in.

PRICES.

With wood top and wood panels in doors	\$30.00
With wood top and glass panels in doors	32.00
With marble top and wood panels in doors	33.00
With marble top and glass panels in doors	35.00



Cabinet No. 27.

Patented April 10, 1894.

This design is a decided and radical departure from prevailing styles, and embodies some very desirable features. The price does not permit of elaborate ornamentation, but every proportion is correct, and the appearance of the Cabinet is pleasing.

In point of utility it has advantages over many higher priced cabinets. It is compact, yet sufficient for ordinary needs.

The large drawer is a suitable and convenient place for forceps. Immediately above it, on the right, is a slide, which, when drawn out, may be used as a table. Above the slide places are provided for Dental Registers, both operative and mechanical, and a Cash Book. Above these is the medicine case, having a glass door.

The instrument drawers on the left are all low enough to be easily accessible, and the top above the drawers is at a proper height from the floor to be used as a handy depository for articles frequently in demand.

A beveled French plate mirror above this top, suitably framed, adds to the beauty of the Cabinet.

Height of Cabinet, including top ornament, 5 feet 11 inches; width, 27 inches; depth, 15 inches.

Made of oak, highly finished and tastefully trimmed.

PRICE, \$27.00.

Dental Cabinet No. 3.

Made by The Ritter Dental Mfg. Co.



This Cabinet is made of the finest selected quartered oak. The handles, knobs and trimmings are gilded brass; the door has a fine beveled-edge mirror, 16x30, is hung with weights so it is very easily raised or lowered, and is selflocking. The weights are in the back, are entirely out of sight, and make no noise. Height to top of railing, 68½ inches; width, 27 inches: depth, 18 inches. The top is provided with space for Appointment Register, Medicine Shelves, Writing Desk, and one large drawer which can be extended full length. Inside of this drawer are four smaller ones, which, upon being extended, bring the instruments very near and convenient to the operator. These small drawers (one of which is lined with billiard cloth) are especially fitted up to hold the instruments, and when opened lift the points free from the bottom of the drawer, so that the operator can select one instantly. Two of the other drawers are divided into sections. There are thirteen other small drawers and four large ones, one of which has a gold sifter. There is also a mixing board, full width of the Cabinet, lined with billiard cloth, also bur holder for 50 burs. The Cabinet stands about six inches from the floor. When closed it represents a full mirror, and is a fine piece of furniture.

Price of Cabinet.

No. 3 Cabinet......\$40.

Cabinet Cases.

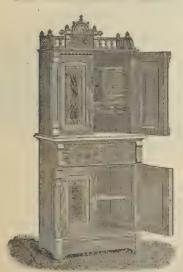
Made by the S. S. White Dental Mfg. Co.

Cabinet Case. (Gothic Pattern.)



Price, Walnut, without Locking Device.....\$100.00 Price, Walnut, with Locking Device, 108.00 Fine Tennessee Marble in place of White Marble, \$4.00 extra.

The Model Cabinet Case.



Cabinet Case. Eastlake Pattern.



Price, with White Marble Slab \$65.00 Double Doors in place of the Fall-

> The Model Cabinet Case. With Instrument Case and Bottle Rack.



Price, with White Marble Slab.......\$60.00
Pine Tennessee Marble in place of White
Marble is \$2.00 extra.

Price, with White Marble Slab.......\$80.00
Pine Tennessee Marble in place of White
Marble is \$2.00 extra.

Boxing free on all of above.



Hand Cabinet No. 2.

This Cabinet is intended for Students and for traveling Dentists. It is large enough to hold all operating instruments, including forceps, and has spaces for glass-stoppered medicine bottles and a rack for clamps and engine instruments.

The drawers contain divisions which enables the operator to separate and classify his tools.

Made substantially of oak, highly finished. All drawers are lined with cabinet cloth, and the case is furnished with an effective locking device and a brass handle on top.

Dimensions: Height, 10½ inches; width, 11154 inches; depth, 8¾ inches.

1H1 5. 5. W 2. V. CO.

Student's Case "D."

Made by The S. S. White Dental Mfg. Co.

Made of walnut, lined with cotton velvet. Outside dimensions, 14 inches long, 9½ inches wide, 6 inches deep. Lock and key. Contains three trays, two being divided in the center. At the end of the Case is a space with eight half-ounce square ground-stoppered vials.

Price, complete, with eight vials, \$6.00

Rolling Cases.

The Rolling Cases we have in stock are of superior quality and workmanship. They are strongly stitched, and are lined throughout with good chamois-skin.

	FRICES.								
.5	spaces	for	Forceps,	Instruments,	eto	ea	ch,	\$2.00	
7		4.4			6.6			2.25	
0	4. 6		4.4	k k	6.6		h .	3.00	
12	4.4			6.4	6.4			3.50	
15	4.4	6.6		4.4	6.6		4 4	4.50	
20	6.6	6.6	6.6	6.6	6.6		4.6	6.00	
Ro	olling (`ase	for Burs	for Students		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6.6	.50	
пv	other s	size	made to	order.				. 0	

Square Glass Vials. Made by The S. S. White Dental Mfg. Co.

The half-ounce Glass-Stoppered Square Vials which we use in the eight-bottle Office Preparations Case, are especially suited to fitting up Students' Cases. The stoppers are ground.

Gold Foil Stand.

Made by The S. S. White Dental Mfg. Co.



THE S. S. W. D. M. CO.

A neat and useful little piece of office furniture intended for preserving gold prepared for fillings from dust and moisture. The base is of polished wood, covered on the upper surface with soft spunk, and protected by a glass vase fitted into the base, the joint protected by a ring of chenille. Made in four sizes, the vases measuring respectively 3, 4 and 5 inches in diameter; the height, inclusive of base, from 3 to 4 inches.

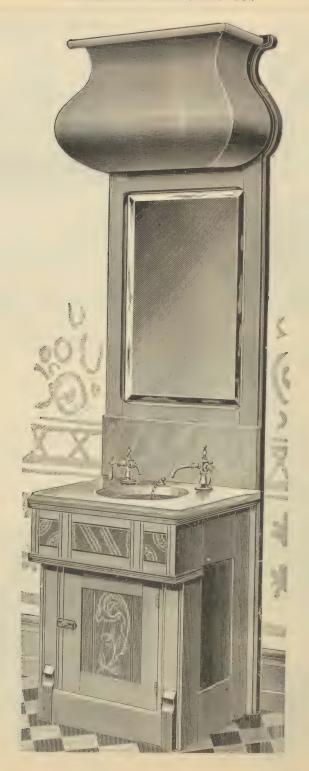
Price of the 3 and 4-inch..each, \$1.50 Price of the 5-inch...... "2.50

Office Preparations Case.

These Cases, made of oiled walnut, and provided with lock and key, have had an extensive sale. They contain eight half-ounce square vials, with flat top glass stoppers. Outside measurements: $6 \times 3 \frac{1}{2} \times 3 \frac{1}{2}$ inches.

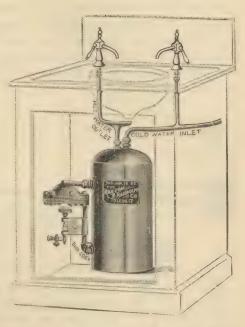
Price, including Vials. \$2.50





Lavatory No. 8.

In localities where there is no public water system the absence of this service is a serious inconvenience. The best possible substitute is Lavatory No. 8. This is an attractive piece of furniture, combining a number of useful features. The base of the wash-stand contains a Success Water Heater, which supplies all the hot water needed. The washstand top is of Italian marble, 11/4 inches thick, fitted with patent overflow basin, nickle-plated faucets, plug, chain and chain stay. This is surmounted by a beveled French plate mirror, and above this is a galvanized iron reservoir, suitably painted and ornamented, for the



water supply. The reservoir is connected by lead pipes with the cold water faucet and with the heater; the heater, in turn, is connected with the hot water faucet. This arrangement makes it feasible to draw hot or cold water. A galvanized iron receptacle for waste water is also provided. The fuel required is gas or kerosene oil.

This Lavatory is made in Oak, Walnut and Cherry, and is boxed for shipping set up complete, ready for use.

In ordering specify fuel to be used; unless otherwise ordered, gas burner will be sent.

PRICE, \$50.00.

Universal Electric Bracket.



Fig. 1.

This Bracket should be in every office where current is available. Handsome in appearance. Simple in construction. The lamp may be placed at any point within the circle described by the arm at extreme length (see Fig. 2). The Bracket extends five feet from the wall, five feet either side, five feet up or down.

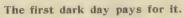




Fig. 2.

One hand does the business. There's not a ratchet or spring about it. When not in use the entire Bracket is thrown against the wall and the lamp placed as

shown in Fig. 3. By means of the swivel attachment the lamp itself may be turned in any direction, the reflector throwing the light just where you want it, when you want it, as you want.



The price is so low as not to be a consideration.

PRICES.



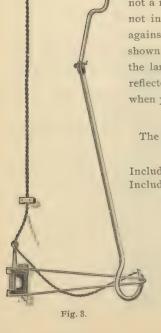
-SOLE AGENTS-

LEE S. SMITH & SON,

DENTAL DEPOT,

524 PENN AVENUE,

PITTSBURG, PA.

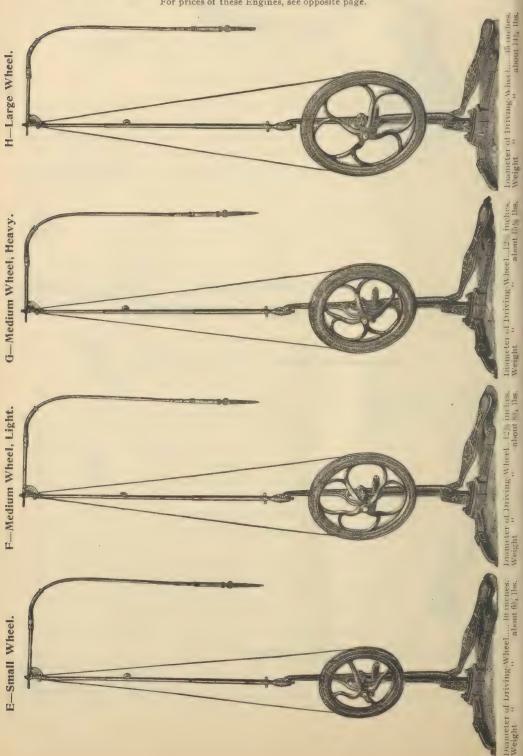


Engines and Equipments.

Materials and Supplies for the Operating Room.

The S. S. White Improved Dental Engine.—Side Wheel.

For prices of these Engines, see opposite page.



The S. S. White Improved Dental Engines.

All Sizes—E, F, G, H, are now uniform in price.

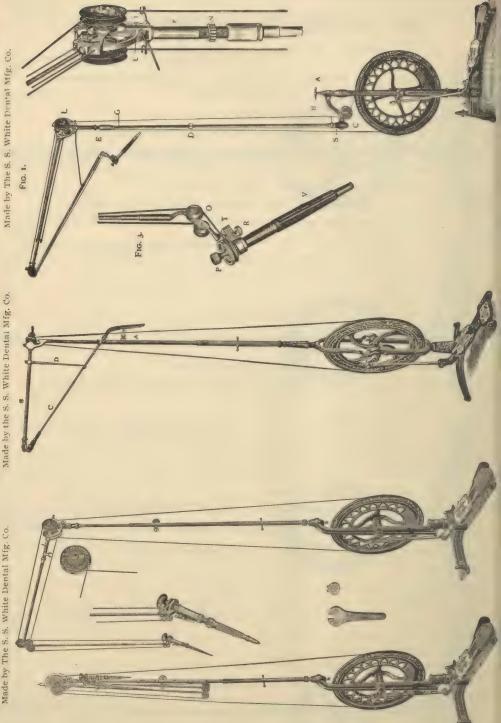
When rigged with a Flexible Arm-Support, Duplex-Spring Connection, and a No. 6 or No. 7 Hand-piece, price
The same with a No. 8 Hand-piece, price
No. 2 Slip-Joint, see page 89, will add \$7.50 to the above prices.
When rigged with a Flexible Arm-Support, a Cable Spring Attachment,
and a No. 6 or No. 7 Hand-piece, price 39.00
The same, with No. 8 Hand-piece, price
With simply the Sleeve and Cable, without Flexible Arm-Support or
Spring Connection, and with a No. 6 or No. 7 Hand-piece, price 37.00
The same, with No. 8 Hand-piece, price
When an Engine is ordered complete in any of the above styles, we
give with it fourteen instruments.
Boxing, either style 0.75
Engine Arms.
When sold separately these are priced as follows:
Pulley-head, Sleeve, Cable, Flexible Arm-Support, Duplex-Spring Connec-
tion, and No. 6 or No. 7 Hand-piece\$25.00
The same, with No. 8 Hand-piece
No. 2 Slip-Joint, see page 89, will add \$7.50 to the above prices.
Pulley-head, Sleeve, Cable, Flexible Arm-Support, Cable Spring Attach-
ment and No. 6 or No. 7 Hand-piece
The same, with No. 8 Hand-piece
Pulley-head, Sleeve and Cable, with No. 6 or No. 7 Hand-piece 22.00
The same, with No. 8 Hand-piece
When the component parts of the Arm are sold separately, the prices will be
as follows:
Pulley-head\$9.00
Cable, complete
Sleeve
Flexible Arm-Support
Duplex-Spring Connection
Hand-piece No. 6
Hand-piece No. 7
Hand-piece No. 8
Slip-Joint
7.50

Patented Aug. 16, 1887; Oct. 6, 1891; Aug. 22, 1893.

Doriot Engine.

The Improved Shaw Dental Engine. Patented Mar. 22, 1887; Aug. 16, 1887. In Fingland Jan. 26, 1887. The Weber-Perry Dental Engine.

Patented Feb 1, 1887; Aug. 16, 1887; Dec. 6, 1887; Oct. 6, 1891. In England Dec. 16, 1887. Made by The S. S. White Dental Mfg. Co.



The Doriot Engine.

The Doriot is a cord engine, as distinguished from the cable, or the rigid-arm engines like the Shaw. This Engine is the culmination of a long series of experiments in the effort to make a machine that should have all advantages of a cord and pulley operating the hand-piece, and the flexibility and ease of movement of the cable, and with abundant driving power. In the Doriot Engine all these desired conditions have been attained with complete success.

								instruments	
	4.4	4.4	h h	k	· В,,	4.4			64.00
* *		No. 6	6.6	6.6		6.6	6.6	" (see page 93)	68.00

Boxing 75 cents.

The Improved Shaw Dental Engine.

The base of the Engine here illustrated is similar to the old style S. S. White Engine, not having the side wheel attachment of the regulation cable engine.

The two sections of the driving shafts designated as B and C in cut are connected by a flexible driving spring. The hand-piece is connected to the forearm by a second flexible driving spring covered by a sheath.

The driving shaft is protected at every point from the pulley-head to the hand-piece.

Price, including fourteen instruments......\$40.00

We can supply the Shaw Engine Base and Stand with the S. S. White Flexible Arm complete, with Arm Support and Duplex-Spring Connection, for \$45.75, and boxing 75 cents.

With No. 8 Hand-Piece, price will be \$4.00 less than above.

The Slip-Joint No. 2 will add \$7.50.

The Weber-Perry Dental Engine.

The distinguishing features of this Engine are the entire absence of "backlash," the absolutely steady motion of the bit, and the perfect maintenance of unvaried tension of the driving belt, when once adjusted, without regard to the positions or movements of the working-arm or Hand-Piece.

Price	0.00
Boxing	.75

The price includes Hand-Piece and fourteen instruments.

We can supply the Engine Base and Standard, with the S. S. White Flexible Arm, Flexible Arm-Support and Duplex-Spring, and fourteen Instruments, for \$50.75.

Boxing, 75 cents.

The Sibley Improved Dental Engine.

Made by Gideon Sibley, Philadelphia and Chicago.

A new Engine built on new principles. There are in it features that are not in any other engine. It has besides all the good points of the others. When it comes to dropping the cable—a little twitch—it's down. One hand does the business. It never goes down when you want it up. The Standard rocks as far forward as it rocks backward. The resistance it offers is always the same. The handle for lifting is a new feature. The Engine is well balanced. It is easy to carry.

All Sibley Engines are supplied with the Sibley hand-piece, duplex spring attachment and flexible sheath support.

They are made in wheels of three different weights.

Diameter of F wheel, 12% inches, weight about 8% lbs.

Diameter of G wheel, 123% inches, weight about

15½ lbs.
Diameter of H wheel, 15 inches, weight about 14½ lbs.

Price of either style, with duplex spring attachment, flexible arm support and 14 instruments, \$40.00.

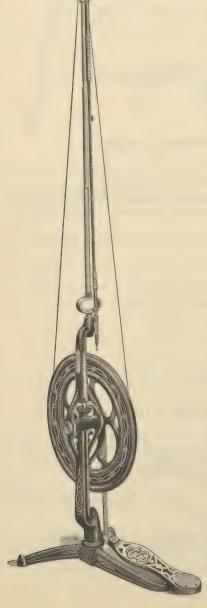
Boxing, 75 cents.

The Sibley Universal Hand-Piece.

While the Engine is running the bur may be inserted, gripped or changed by simple sliding movement of the ferrule I in engraving. hand that holds the instrument is the hand that does it all. This is the simplest hand-piece that is built. It is so simple that anybody can fix it. The wear is taken up by turning the small adjusting nut A about 1/8 of a turn. The entire sheath is removed for oiling by turning coupling There are no small screws to bother with, there are none to lose.

Price, \$10.00





Electric Power

For Operating Dental Machinery.

THE time is coming when it will be as strange a sight to see a dentist operating his engine by foot-power as it is now to see a street car propelled by anything but electricity. There is no question about this. Neither is there any question about the high speed of your engine decreasing the pain of an operation, or that you can accomplish your work in less time and with less exertion. Time is a large part of your capital; if you save it, you save money.

When every engine is operated by electricity, the office with the new outfit will be nothing unusual. At present it is different. The office with electric and modern equipment is the office that is talked about. The office where prices have to be advanced.

It looks to us as though right **now** is the time to take the lead. Right now is when an electric outfit will pay for itself in increased business sooner than it will when your equipment is same as your neighbor's.

From the multitude of Electric Engines on the market, we list the best. We can furnish them all, but these are standard; they are up to date and are all right. We have made a study of this branch of our business We can tell you anything about it you may wish to know. All we need is the hint that you are interested.

Notice.

In this department we list Electric Engines and Appliances for use in the office. Electric Laboratory Motors will be found listed with other lathes in mechanical department.

The S. S. White Standard Electrical Outfits.

For the 110-volt direct current, such as the Edison Incandescent Lighting System, or isolated electric lighting plants in buildings. Can be operated on 220-volt direct current circuits by using the S. S. White Special 220-volt Resistance.

The New Model No. 2 Motor Stand Outfit.

With S. S. White Dental Motor.

With or Without Transformer.

Patented December 6, 1887; August 15, 1893; December 26, 1893; December 31, 1895. Others pending.

This apparatus consists of the S. S. White Dental Motor No. 2, an Iron Stand with a mahogany top, on which it sets, a fire-proof speed-regulating resistance in an iron case supported by the stand, an electro-magnetic clutch on a countershaft supported on front of Stand, and a governing treadle connected to it by a cable.

The Motor is enclosed in a glass vase to protect it from dust, and the Stand is mounted upon rubber-tired wheels to facilitate its ready movement from one position to another.

The special Motor with this outfit has an extra pair of brushes and collecting rings for use with the Transformer, for operating the New Electric Mallet, Hot-Air Syringe, etc.

When the Transformer is not used, the extra (outer) brushes should be raised.

On the under side of the Motor are six metal terminals, which (when the Motor is screwed in position) make contact with a similar number of springs on the Stand, which are connected to the Rheostat.

This again is connected with the treadle by means of a pair of multiple contact-plates at the end of the treadle-cable, and on the side of the Motor Stand. There is no danger of making the wrong attachment with these contact-plates, as they can be connected in only one position. A four-point contact-plate serves to connect the cable from Transformer, or Wall-Switch. Attached to the Rheostat box and adjustable vertically upon it is the countershaft frame, which carries our patented electric clutch and a socket for the standard of the engine, when one is used. Upon the countershaft are mounted two pulleys, the inner one connected by a belt with the motor pulley, and the outer transmitting the power to the pulley of the engine-head. The outer pulley is a cone pulley with two belt grooves of different diameters, by the use of which and the variable resistance controlled by the treadle, various speeds, from about 700 to 5,000 revolutions per minute, can be given the engine-bit.

The entire control of the running of the engine with this apparatus is in the treadle, This consists of an iron box with starting, stopping, reversing and clutch switches inside, controlled by two rocking-pedals upon the top, and with a toe-lever, which curves over the front of the box, and operates the speed-regulating resistance in the stand. At the rear of the box is a large corrugated rubber pad for the heel of the operator's foot.

When the heel of the operator is on the rubber pad of the treadle, the ball of the foot rests on the two rocking-pedals, while the toe-lever is within easy reach of the toe. The rocking-pedal to the left starts or stops the Motor, and governs the clutch. Depressing the inner knob starts the Motor; pushing down the outer stops it. Pressing the outer knob down hard puts on the clutch, and instantly stops the tool. (The pressure should be removed at once on stopping.) The right rocking-pedal controls the direction of the revolutions. With the outer knob pressed down, the tool runs to the left; depressing the inner knob reverses the current, and the tool revolves to the right; that is, if the cord connecting countershaft and engine-head is on properly. The toe-lever which operates the variable resistance governs the speed of the Motor, and consequently of the engine-bit. When at the left the slowest speed is on; pushing toward the right increases the speed.

In this very efficient outfit, the only part attached to the wall is the Transformer or Wall-Switch, with the two safety-plugs.

The S. S. White New Model No. 2 Motor Stand Outfit.

With S. S. White Engine-Head and Flexible Arm attached to Upper Arm and Standard of Cord Engine. With Transformer for Operating Electric Mallet, Mouth-Lamp,

Cautery, Hot-Air Syringe, etc.

For 110-Volt Direct Current Circuits, or 220-Volt Current with The S. S. White Special 220-Volt Resistance Plate.

Patented July 6, 1880; December 6, 1887 (Nos. 374,221 and 374,225); January 7, 1890; August 15, 1893; December 26, 1893; December 31, 1895. Others pending.

Made by The S. S. White Dental Mfg. Co.



This Outfit can also be furnished with Wall-Switch E in place of Transformer. For prices, see page 70.

THE S. S. WHITE NEW MODEL NO. 2 MOTOR STAND OUTFIT.
PRICES.

	With Wall- Switch E.	With Plain Trans- former.
The S. S. White New Model Motor, Stand, Stopping, Reverse, and special Controlling Treadle Outfit alone	\$140 00 5 00	\$140 00 35 00
RIII TRIBACTIBE	145 00	175 00
PRICES OF ELECTRICAL OUTFITS WITH S. S. WHITE DENTAL ENGINE COMBINATIONS.		
The S. S. White Standard Pulley-Head, Flexible Arm with Duplex Spring, new Arm- Support, and Hand-Piece	29 00 145 00	29 00 175 00
10, 2 sactor search outstanding	174 00	204 00
The S. S. White Pulley-Head, Flexible Arm with Duplex Spring, and new Arm- Support and Hand-Piece attached to the Weber-Perry upper Arm and Standard No. 2 Motor Stand Outfit	44 25 145 00	44 25 175 00
	189 25	219 25
The New Doriot Engine-Arm and Hand-Piece A, with special Standard to fit No. 2 Motor Stand	48 00 145 00	48 00 175 00 223 00
	193 00	220 00
The Weber-Perry Cord Engine and Standard	43 50 145 00	43 50 175 00
	188 50	218 50
The Shaw Engine-Arm, S. S. W. Hand-Piece and Standard	32 00 145 00	32 00 175 00
	177 00	207 00
The Improved S. S. White No. 2 Engine Wall Bracket with Compensating Pulleys Doriot Arm and Hand-Piece	40 00 40 00 145 00	40 00 40 00 175 00
	225 00	255 00
The Improved S. S. White No. 2 Engine Wall Bracket with Compensating Pulleys S. S. White Pulley-Head, Flexible Arm, with Duplex Spring, new Arm-Support, and	40 00	40 00
Hand-Piece	25 00 145 00	25 00 175 00
NO. 2 MOTOT STREET OUTILE	210 00	240 00
The Elliott Suspension Engine for Ceiling, with improved Hand-Piece	33 00 145 00	33 00 175 00
TOTAL PRODUCTION OF THE PRODUC	178 00	208 00
Crane, extra		

Transformer with mirror front adds \$2.50 to prices of outfits with plain Transformer.

The S. S. White New Treadle-Rheostat Outfits

For the 110-volt direct current, such as the Edison incandescent lighting system, or isolated electric lighting plants in buildings.

Can be operated on 220-volt direct current circuits by using the S. S. White Special 220-volt Resistance.

Patented August 15, 1893, and July 24, 1894.

Two Styles-With and Without Transformer.

These Treadle-Rheostat Outfits were devised to afford a convenient and effective means of controlling the electrical current for dental uses at a moderate expense for installation. The electrical part of the outfit consists of the Treadle-Rheostat with Cable and Contact Plate, Motor and Connecting Plate, and the Wall-Switch or Transformer and Connecting Cords.

The Rheostat is fire-proof (Carpenter Enamel), and has patent process of wiring, giving practically full power at slow speed. It is mounted with a pedal-controlling switch in a metal case, which is easily moved over the floor to bring it handy to the operator's foot.

The pedal swings to right and left of the centre. Pushing it to the right, starts the motor forward; to the left, starts it backward. The farther from the center it is moved in either direction, the greater the speed. Depressing the lever at any speed instantly stops the motor and tool. When the lever is central, the current is cut off.

The Contact Plate of the Conducting Cable is so made that there can be no mistake in putting it on—it only fits one way.

The Motor is either mounted on new No. 3 Portable Motor Stand, to which any of our foot engine-arms and standards can be attached, or furnished on a Tripod which can be placed on a shelf and used to drive a suspension or wall-bracket engine.

All these outfits provided with S. S. White flexible arms and hand-pieces, can be supplied with slip-joint, permitting mechanical mallets to be readily attached.

Treadle=Rheostat Outfit for Use with Transformer.

Requires Special Dental Motor A.

This Motor is spherical in shape, compact, neat, powerful, noiseless and practically dust-proof. It has an extra pair of brushes and collecting rings to supply current to the Transformer, for operating the Electric Mallet, Hot-Air Syringe, Cautery, Mouth-Lamp, etc.

Special Dental Motor B.

Was designed for use where the electrical current is to be used for engine work only, and it therefore does not have the attachments required to operate the Transformer. Otherwise it is a fac-simile of the A Motor.

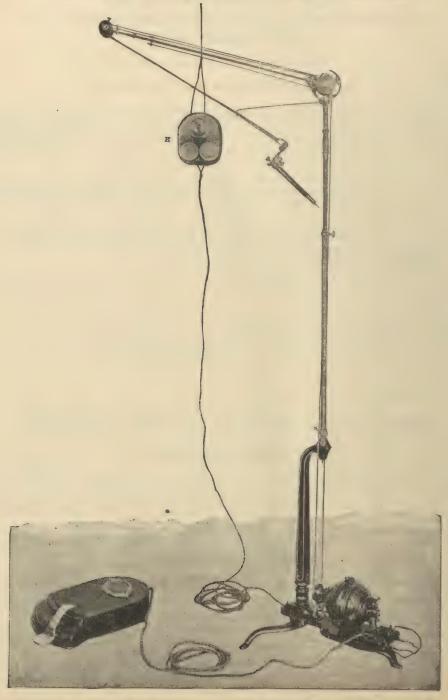
NOTE.—Where the Transformer is not purchased with the original outfit, but the intention is to add it later, it is more economical to buy the Motor A, as the Motor B cannot be used to operate the Transformer.

The S. S. White New Treadle=Rheostat Outfit.

With Wall-Switch E, Special Standard, Doriot Arm, and Hand-Piece A.

For 110-Volt Direct Current, or 220-Volt Direct Current Circuits with the
S. S. White Special 220-Volt Resistance Plate.

Patented Aug. 15, 1893; Aug. 22, 1893; July 24, 1894; Dec. 6, 1887. (Nos. 374,221, 374,225



This Outfit can be supplied with Transformer in place of Wall-Switch E. For prices, see page 74.

The S. S. White Treadle=Rheostat Outfit and Transformer.

For 110-Volt Direct Current, or 220-Volt Direct Current Circuits, with the S. S. White Special 220-Volt Resistance Plate.

With No. 2 Engine Wall-Bracket, S. S. W. Engine-Head, Flexible Arm, No. 2 Slip-Joint, Duplex Spring and No. 7 Hand-piece.

Patented July 6, 1880; Jan. 7, 1890; Aug. 15, 1893; May 15, 1894; July 3, 1894; July 24, 1894.



This Outfit can be furnished with Wall-Switch E in place of Transformer, or with Doriot, Weber-Perry, or Shaw Arm in place of S. S. W. Arm.

For prices, see page 74.

NEW TREADLE-RHEOSTAT OUTFITS.

PRICES.

OF ELECTRICAL OUTFITS ALONE.	With Motor A and Wall- Switch E.	With Motor A and Plain Trans- former.	With Motor B and Wall- Switch E.
Treadle-Rheostat	\$ 45 00 40 00	\$ 45 00 40 00	\$ 45 00
Plain Transformer	5 00 15 00	35 00 15 00	5 00 15 00
Price complete	105 00	135 00	98 00
PRICES OF ELECTRICAL OUTFITS WITH S. S. WHITE DENTAL ENGINE COMBINATIONS.			
The S. S. White Standard, Pulley-Head, Flexible Arm, with Duplex Spring, new Arm Support, and Hand-Piece	29 00 105 00	29 00 185 00	29 00 93 00
	134 00	164 00	122 00
The S. S. White Pulley-Head, Flexible Arm with Duplex Spring, new Arm Support, and Hand-Piece attached to Cord Engine Standard and Upper Arm	44 25	44 25	44 25
Treadle-Rheostat Outfit and No. 3 Stand	105 00	135 00 179 25	93 00 137 25
The new Dorlot Engine Arm and Hand-Piece A with Special Standard to attach to No. 3 Stand	48 00 105 00	48 00	48 00
Treadle-Rheostat Outfit and No. 3 Stand	153 00	135 00	93 00
The Weber-Perry Cord Engine and Standard Treadle-Rheostat Outfit and No. 3 Stand	43 50 105 00	43 50 135 00	43 50 93 00
A Telegra Allecostate Outlie and 210.0 Sanitaminiminiminiminiminiminiminiminiminimin	148 50	178 50	136 50
The Shaw Engine-Arm, S. S. W. Hand-Piece and Standard Treadle-Rheostat Outfit and No. 3 Stand	32 00 105 00	32 00 135 00	32 00 93 00
	137 00	167 00	125 00
The Improved S. S. White No. 2 Engine Wall Bracket, with Compensating Pulleys. Doriot Arm and Hand-Piece Treadle-Rheostat Outfit without No. 3 Stand but with Tripod	40 00 40 00 91 50	40 00 40 00 121 50	40 00 40 00 79 50
	171 50	201 50	159 50
The Improved S. S. White No. 2 Engine Wall Bracket, with Compensating Pulleys. S. S. White Pulley-Head, Flexible Arm, with Duplex Spring, new	40 00	40 00	40 00
Arm Support, and Hand-Piece Treadle-Rheostat Outfit without No. 3 Stand but with Tripod	25 00 91 50	25 00 121 50	25 00 79 50
areade Ancobic Outlie without 10, 9 Stand but with Hipodiminism	156 50	186 50	144 50
The Elliott Suspension Engine for ceiling, with Improved Hand-Piece Treadle-Rheostat Outfit without No. 3 Stand but with Tripod	33 00 91 50	33 00 121 50	33 00 79 50
	124 50	154 50	112 50
S. S. White Arm with Duplex Spring, new Arm Support, and Hand- Piece for direct connection to Motor	19 25 5 00 91 50	19 25 5 00 121 50	19 2 5 5 00 79 50
S. S. White Iron Wall Bracket to hold Motor	10 00 125 75	10 00	10 00
Crane, extra		200 10	110 10

Transformer with mirror front adds \$2.00 to prices of Outfits with plain Transformer. For description of Transformer see page 75.

The S. S. White Flexible Arm, as supplied with these Outfits, includes the Duplex Spring and Flexible Arm Support.

The S. S. White Transformer,

For Operating Accessories on No. 2 Motor Stand and Treadle-Rheostat Outfits.



When used with No. 2 Motor Stand or Treadle-Rheostat outfits, this Transformer furnishes a low volt alternating current for operating Electric Mallet, Mouth-Lamp, Hot-air Syringe and Cautery. This alternating current is generated by an extra pair of brushes and collecting rings. It is a dynamo within a motor. The Transformer is enclosed in a neat case which may be fastened to the wall at a convenient point. The door of the case has a pocket inside for holding the accessories when not in use. We illustrate the complete outfit in connection with the Treadle-Rheostat outfit on page 73.

If the outfit is to be used without the Transformer, the Wall-Switch E is used to connect the motor to the

circuit.



Wall-Switch E.

PRICES.

Transformer	with	Plain	Front	and	Cable			\$35.00
* *		Mirro)r ''		6.6			27 00
Wall-Switch	E wi	th two	Fuse	Plug	s and	Connecting	Cords	5.00

The S. S. White 220-Volt Special Reducing Resistance.

The S. S. White 220-Volt Special Reducing Resistance is an iron and enamel fire-proof rheostat, to permit the preceding outfits to be operated from 220-volt direct currents. It gives them the same currents and speeds they would have on the 110-volt circuit without it, and prevents the excessive sparking at Treadle contacts which would otherwise occur with 220 volts.

New Iron and Enamel Rheostats, For 110-Volt Current, for Kells Systems Nos. 2, 3, 4, and 5.



Double Rheostat.



Single Rheostat for Mallet.



Single Rheostat for Engine.

Double Rheostat for	Engine, Mall	et, and	Mouth-Lamp,	with 5	о с. р.
Lamp					\$12.00
Single Rheostat for 1	Engine				25.00
Single Rheostat for 1	Mallet, with	so c. p. I	amp		28.00

Columbia Electric Dental Engine.

Made by The Ritter Dental Mfg. Co.



The chief distinctive feature wherein the Columbia. Electric Dental Engine differs

from those of other manufacture is in the method of suspension.

Instead of placing the motor on the carpet or on a clumsy stand under a glass case, or in an adjoining room, as has been the custom heretofore, we flexibly suspend ours from a neat bracket by means of a cord, which at the same time carries the electric current to the motor.

By a simple rack-lock device the shaft of the motor may be held either in a perpen-

dicular position or a horizontal one, or anywhere between these.

The motor being pivoted horizontally in a half ring, and free to turn throughout almost a complete circle, gives it remarkable freedom, adjusting itself perfectly to the slightest move of the hand-piece, and thereby avoiding that constant pull so common to the rigidlysupported engines. Engines pivoted vertically are useless as far as freedom of motion is

The direct connection of the flexible shaft with the motor avoids all unnecessary use

of belts, with their attendant inconveniences.

The cable, sleeve and hand-piece are thoroughly insulated from the framework of the motor, and this, together with the care taken in insulating the wire winding, makes it impossible to get a shock. Every motor is carefully tested as to this before sending out.

Columbia Dental Engine—Continued.

The speed of these motors may be varied at will from 500 revolutions per minute to 4,000, a range found in practice to be all ever needed. Throughout all this variation of speed the power remains the same, the torque or turning effort being greatest at the slowest speed.

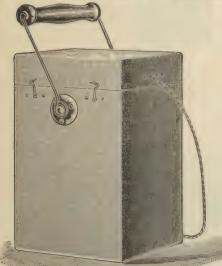
A strong point in favor of these motors is the freedom from destructive sparking at the commutator.

The brushes having been once set at the non-sparking point require no movement

under the most extreme changes of load.

The bearings are made of the best phosphor bronze, fitted with unusual accuracy, and very long in proportion to their diameter. Hence the wear is exceedingly small. The commutators are of the best construction, and, if reasonable care be taken, the wear is inappreciable. These are the only wearing parts. No machine can be simpler, all portions needing attention being easily accessible.

The motors are built to run from the 110-volt direct current from a 4-volt storage battery, and very shortly we will be able to operate



them from the 52 or 100-volt alternating current. For places where neither the 110-volt direct current or the 52-volt alternating circuits are available during the day, we have provided the 4-volt storage battery outfit,

which we heartily recommend as the only

dental engine operated by batteries worthy of the slightest attention.

We are prepared to run our motors from storage batteries, and guarantee them thoroughly reliable and cheap and easy to

maintain.

With this battery outfit at command, no dentist need hesitate about purchasing because in his particular locality no day circuits exist, for even if there is no lighting current at all he can provide himself with a set of seven ordinary telegraph batteries, which are connected to the storage cells continually and will always maintain them in a charged or working condition. We will gladly refer those who contemplate this method to a number of dentists running their motors in that way. Generally, however, some electric light circuits are available during the night; then the stor-

age cells may be charged directly from these.

The Ho-volt circuit can be used, also the regular arc-lighting current; either of these will answer perfectly. When the arc light (large street lamps) current is used, one all-night charging is sufficient to carry on an ordinary practice from one to two weeks. Under these conditions the storage battery need not be disturbed at all, a switch being provided to cut the current off and on. The alternating current is not suitable for charging storage batteries. In reference to the durability of the batteries, it must be understood that the current discharge required to run our motor is very small in comparison with those outfits using belts and numerous pulleys and clutches, consequently the life and durability is correspondingly increased. We are aware that numerous failures have been made with such batteries, but not where they have been intelligently applied, and in three years' experience we have never replaced a single cell.

Still another method of charging the storage battery, and one which has recently met with great favor, consists in sending them out to an electric light station to be recharged, just as gas cylinders are sent out to be refilled. They are put up in neat hardwood polished cases, and provided with a handle for carrying. One charge will last, with ordinary dental work, about two weeks, and if a dentist provides himself with two sets he can at all times have one in reserve; or, if desired, we can furnish batteries of larger capacity, lasting two months or longer. These same batteries may be used to operate the Laborarory Lathe, but

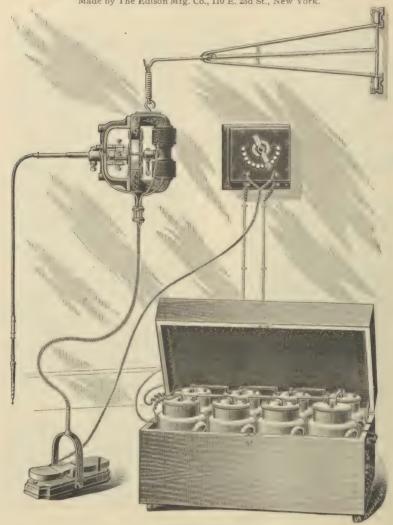
it will require a case containing three cells instead of one containing only two.

PRICES.

Electric Dental Engine for 110-volt circuit, including Motor, Controller, Bracket, necessary Silk Flexible Conducting Cord and Flexible Steel Cable and Sleeve \$110.00 Electric Dental Engine, 4-volt battery circuit, including Motor, Controller, Bracket,

The Edison Battery=Motor Dental Outfit.

Made by The Edison Mfg. Co., 110 E. 23d St., New York.



Outfit "A."

Consisting of 8 Edison-Lalande cells, type "W," in lead-lined, polished oak box—Edison Reversing Suspension Motor with Coupling and Spring—Reversing Foot-switch with instantaneous Stop Attachment—Adjustable Motor Rheostat—Battery leads connecting Motor to Rheostat—Simonson Extension Wall Bracket—S. S. White Flexible Arm with Duplex Spring, New Arm Support and either No. 6 or No. 7 Hand-Piece.

> Price, complete, \$114.00

In place of the Motor Rheostat, the combination Motor and Mallet Rheostat described in the "B" outfit (but without case and glass cover) can be substituted at an additional cost of \$4.00, making price of outfit, complete, \$118.00

If the S. S. White Flexible Arm, with duplex spring, new arm support and handpiece, is not required, it will make a reduction of \$18.50 from the above prices.

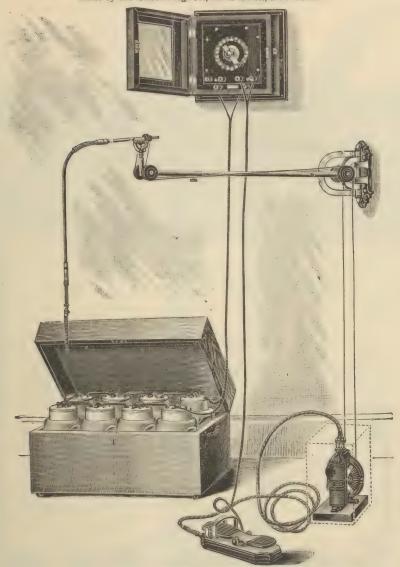
When the cells can be conveniently placed in a cellar the oak box can be omitted,

which will reduce the price of the outfit \$10,00.

This outfit "A" has been before the profession for the last three years, and the large and increasing sale for it is sufficient acknowledgment of its worth.

WRITE FOR CATALOGUE.

The Edison Battery=Motor Dental Outfits. Made by the Edison Mig. Co., 110 E. 23d St., New York.



Outfit "B."

Consisting of 8 Edison-Lalande cells, type "W," in lead-lined, polished oak box—Combination Motor and Mallet Rheostat in polished oak case with beveled glass cover— Battery Cords—Reversing Motor mounted on oak base with polished oak cover—Reversing Poot-Switch with instantaneous stop attachment—Gilbert Wall Bracket with adjustable movement—S. S. White Engine-Head, Flexible Arm with Duplex Spring, new Arm Support and either No. 6 or No. 7 Hand-Piece.

Price, complete, \$165.00

Price of outfit without the S. S. White Engine-head, Flexible Arm with Duplex Spring, new Arm Support and Hand-Piece. \$140.00

If the cells are placed in the cellar, the lead-lined oak box can be omitted, which will make a reduction of \$10.00 from the above prices. The Rheostat can also be supplied without the case and glass cover, if required, which would make a further reduction of \$5.00 from price of outfit. WRITE FOR CATALOGUE.

Electric Hot=Air Syringe.

Made by The S. S. White Dental Mfg. Co.
Patented September 25, 1894.

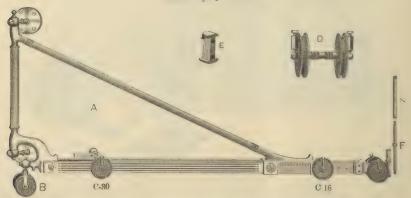
Voltage, 3 to 4 Volts; Current, 41/2 Amperes.



A switch under the thumb makes the circuit, heating a coil of platinum wire. Pressing the bulb gives an instant current of heated air. This Syringe can be used with new Transformer, Storage Batteries, the Partz Motor Battery No. 6, or the Edison-Lalande Battery.

The New S. S. White No. 2 Engine Wall Bracket.

Patented July 3, 1894.



Length from the wall when closed is 36½ inches, including supports. The slide, which extends 19 inches, makes the extreme length 55½ inches. The complete Bracket includes two belt compensating pulleys, C-16 and C-30, which automatically keep the belt tight at any position of the Bracket.

Where it is desired to permanently use the Bracket at some particular length, these two pulleys can be omitted, and guide E takes the place of pulley C-30.



PRICE.
Without Conducting Cord....\$8.00
With '' 9.50
Extra Platinum Loops each, .10
4 Cells Partz Motor Battery,



Electric Mouth-Illuminator.

With Lamp Resistance for 110-Volt Circuit.

Made by The S. S. White Dental Mfg. Co.



With this appliance the oral cavity can be illuminated more prefectly than with any other device heretofore tried, without affecting the eyes of the operator or patient, and without the slightest discomfort from heat. It consists of an Edison five-candle power incandescent lamp in a hooded casing, hinged to a hollow rod or stem, which terminates in a wood handle. Conducting-wires pass through the stem to couplings at the end of the handle for attachment to the current wire. The hood may be revolved, or extended and made deeper for greater concentration.

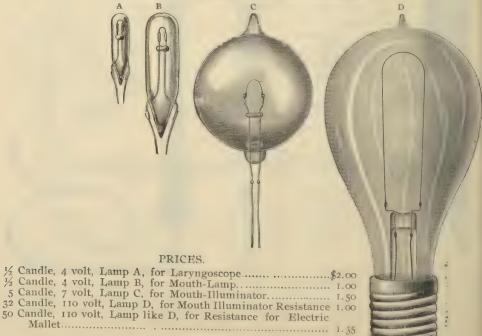
It is to be attached to the head-rest frame of the chair by means of a hinged bracketarm which gives it universal adjustment. The operator has merely to adjust the Illuminator to concentrate its light upon the part

of the mouth desired.

This appliance, though originally designed for use with the Edison incandescent cir-

cuit, can be operated with a primary battery—about six-cell Partz Battery. When run by the incandescent current, an excellent resistance may be provided by coupling the Illuminator in series with a thirty-two-candle power lamp. (The bracket support K is now made in two styles to fit either the Wilkerson or the Watkins Head-Rest. Always mention which Head-Rest in ordering.) The large lamp will illuminate the entire office.

Electric Incandescent Lamps.



Improved Engine Cables and Sleeves for S. S. White Engines.

Patented July 6, 1880; February 21, 1893. 103 102 31 inches 111 26 inches Cables "A," complete, with Brass Ferrules, Cable End No. 103 and

Flexible Engine-Arm Support.

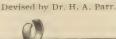


The flexible part of this Support is a tapered flat spiral spring, which yields readily to the weight of the arm, but maintains an easy curve and prevents permanent bends in the cable. Price......\$1.00

Parr's Engine=Arm Support.











The clamping-band at the end of the arm is fixed, while the other, being movable, may be placed where it will afford the best results.

Nickel-plated all over. The cut is half size.

Price.....\$1.00

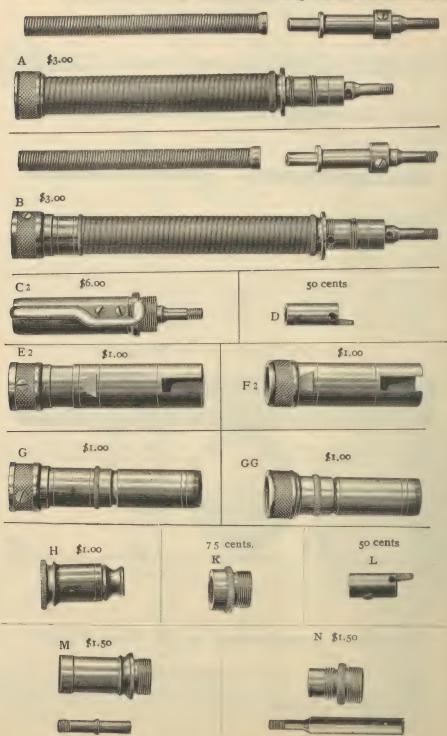
Adjustable Arm-Support for the Shaw Engine.



The Support is 7¼ inches long over all, nickel-plated. The clamping-screw is blued It can be applied to any Shaw Engine.

Price,.....\$1.00

Parts of Duplex=Spring and No. 2 Slip=Joint Connection.



Duplex=Spring Connection and No. 2 Slip=Joint.

To adapt the various Engines and Hand-Pieces for use with the Duplex-Spring Connection and the No. 2 Slip-Joint, the proper parts must be selected as indicated below.

Parts Required for the Duplex-Spring Connection.

Parts Required for the Duplex-Spring Connection and No. 2 Slip-Joint.

S. S. W. ENGINE.

No. 6 Hand	l-Piece, B,	G			. \$4	00	A, C^2, D, E^2, G	\$11 50
" 7 or 8	44 A,	G			4	00	A, C^2 , D, F^2 , G	11 50
H. & W.	44 A	G,	, N		5	50	A, C^2 , D, F^2 , G, N	13 00

SHAW ENGINE.

No. 6 Hand-Piece	В, Н .	. \$4 00	A, C ² , D, E ² , H			\$11 50
" 7 or 8 "	A, H	 4 00	A, C^2 , D, F^2 , H			11 50
H. & W. "	A, H, N	• 5 50	A, C^2 , D, F^2 , H,	N.		13 00

G G is used only when the Slip-Joint Connection is attached to the S. S. White Engine Sleeve without the Duplex-Spring Connection.

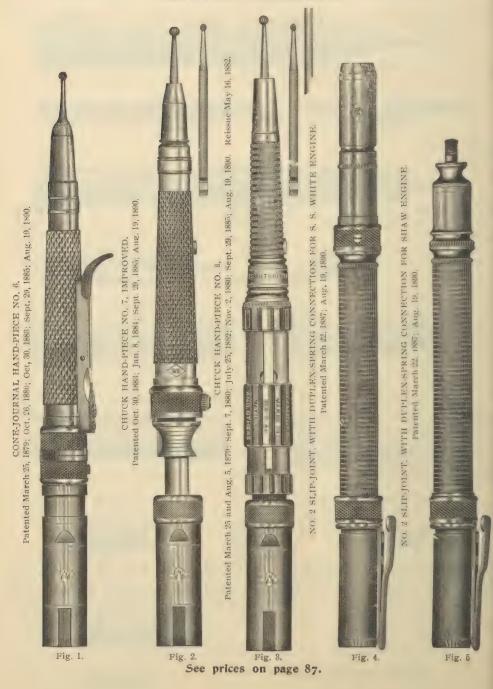
Extra Hand-Pieces may be fitted for the No. 2 Slip-Joint system, as indicated below:

No. 6 Han	d-Piece,	Đ,	\mathbb{E}^2		٠		۰				\$1	50
" 7 or 8	66	D,	\mathbf{F}^2					۰		•	1	50
H. & W.	6.6	D,	F'2,	N					0		3	00

Experience has taught us that Hand-Pieces sent us to have the Slip-Joint applied are usually in a condition requiring more or less repair. In such cases we make the necessary repairs and charge accordingly.

Hand-Pieces Fitted for No. 2 Slip-Joint and Duplex-Spring Connection.

Made by The S. S. White Dental Mfg. Co.



Hand-Pieces Fitted for No. 2 Slip-Joint and Duplex-Spring Connection.

PRICES.

Hand-Piece No. 6 or No. 7, with Slip-Joint and Duplex Spring Connection, for the S. S. White Engine\$21.	.50
Hand-Piece No. 6 or No. 7, with Slip-Joint and Duplex Spring Connection, for the Shaw Engine	
Slip-Joint, separately	
Duplex-Spring Connection, separately 4	

Hand-Pieces with the Duplex Spring Connection can be supplied, without the Slip-Joint, at the following prices:

Hand-Piece No.	6 or No.	7, with	Duplex-Spring	Connection,	for the	
S. S. White	Engine					14.00
Hand-Piece No.						
Shaw Engin	ie	••••••		**** ** ********		14.00

With the No. 8 Hand-Piece, in either of the above arrangements, the price will be \$4.00 less.

A screw-socket on the end of the cable or Engine-Arm is necessary for the application of the Slip-Joint and Duplex-Spring Connection. All S. S. White Engine-Arms adapted for the No. 6, No. 7 and No. 8 Hand-Pieces have this socket; the Shaw Engine-Arm is also socketed.

Hand-Pieces.

Number Six.—All other hand-pieces are tools—this is an instrument. It is exact and precise in operation. The bit may be secured or released with one hand. It has an absolutely secure and true bur-fastening. When locked the bur and spindle become one straight and solid piece. For illustration see Fig. 1, page 86.

Number Seven.—See Fig. 2, page 86. Probably the most popular Hand-Piece on the market. It is universal. Will hold plain wire as well as slotted bur shank. Is easily repaired. The lost motion may readily be taken up. Operated by sliding end of hand piece to or from the operator. This releases or secures the bur.

Price, each\$10.00

Number Eight.—See Fig. 3, page 86. In the construction of this Hand-Piece, the manufacturers have succeeded in constructing a spring clutch device for locking the spindle, thus rendering it unnecessary to hold it in the fingers when a bit is inserted or removed. No wrench or screw-driver is required in taking apart for cleaning or oiling.

NOTICE.

All of these Hand-Pieces as regularly sold are furnished with part similar to "G. G.," (page 84), for attachment to sheath of regular engine. The illustrations show the Hand-Pieces as rigged for the Slip-Joint connection.

SPECIAL NOTICE.

Instructions for attaching these Hand-Pieces to engines and for oiling, cleaning, etc., will gladly be mailed upon application.

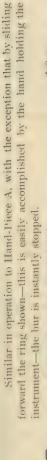
Doriot Hand-Piece A.

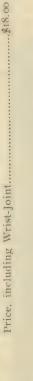
Patented August 22, 1893. Reissue May 16, 1882

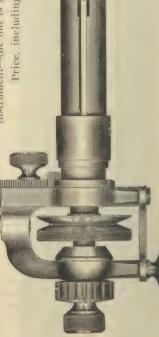


Doriot Hand-Piece B.

Patented Aug. 22, 1893; Sept. 5, 1893. Reissue May 16, 1882.







Made by The S. S. White Dental Mfg. Co.

Right Angle No. 2 for Doriot Hand=Piece A.

Patented August 22, 1893.



To attach the Right-Angle to the Hand-Piece, remove the case (see directions with the Engine), and put the Angle Attachment in the place of it. We are prepared to furnish for the Doriot Hand-Piece A, Obtuse and Acute Angles as well as Right Angles Nos. 1, 2 and 3. The No. 2 is shown in engraving.

Price of either....

......\$3.00

Right Angle Hand-Pieces,

Fitted for the No. 2 Slip-Joint Connection.

Patented Sept, 29, 1895, and August 19, 1890.



Made by The S. S. White Dental Mfg. Co.

Angle Attachments.

Made by The S. S. White Dental Mfg. Co.
No. 1, for the S. S. White Hand-Piece No. 4.



No. 2, for the S. S. White Hand-Piece No. 4.

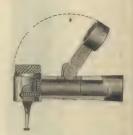


In the Right-Angle, No. 2, the bits are locked by a pivoted latch A, which is more accurate and more certain in its adjustment than the slide formerly used.

Right Angle Attachment No. 3.

Patented May 20, 1884; Nov. 4, 1884; June 2, 1885. In England, May 20, 1884.





In the No. 3 Right-Angle, a split chuck with taper bearings controlled by a milled nut grasps a considerable portion of the shank of the bit, which is thus held true. A hinged cap covering the milled nut prevents the entrance of saliva into the working parts.

No. 2 Obtuse Angle,

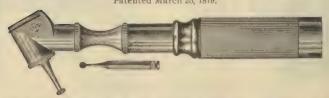
For the S. S. White Hand-Piece No. 6.

Patented March 25, 1879.



No. 2 Acute Angle. For the S. S. White Hand-Piece No. 6.

Patented March 25, 1879.



We can supply any of the Angle Attachments shown on this page for any Hand-Piece made.

Price, any form for any Hand-Piece.....\$6.00

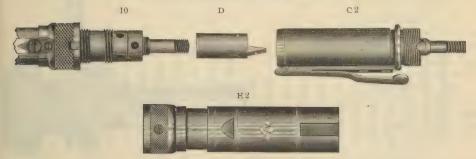
Second-hand Engines.

We always have them—all sorts of them—all sorts of prices. The value of a postal card, making known your wants, is the price for full details at any time. In case of a break-down, an emergency engine is a friend in need. is always well to anticipate these accidents. You'll not get the same value elsewhere we are always prepared to offer.

No. 2 Slip-Joint Connection for Dental Engines.

An Improved Device.

Made by The S. S. White Dental Mfg Co. Patented September 29, 1885. August 19, 1890.



The great advantages of the original Slip-Joint have been recognized by many den-If for any reason, during an operation, the dentist wishes to change his hand-piece, the Slip-Joint enables him to do it almost instantaneously. The improved device will be found even more satisfactory.

Duplex Driving Spring.

Patented March 22, 1887; in England, January 26, 1887.



As affording the greatest torsional strength with high flexibility, the Duplex Driving

Spring stands at the head of the list for connections.

On the two pages following will be found the various parts used in applying the Slip-Joint and Duplex Spring Connection to the different engines and hand-pieces with the groupings necessary and the prices.

On page 89 will be found the Angle Hand-Pieces as modified for the improved Slip-Joint.

Always in Order.

Whether you use the Slip-Joint Connection or the regulation hand-piece Carborundum will save you three hours out of four. Good any time and all the time.

Quantity Rates for Engine-Points.

A saving of 25 cents on every dozen burs a dentist uses in the course of a year is worth considering. Burs keep. If you shouldn't need enough to entitle you to quantity rates it will pay to lay them aside until you do need them.

The banks are not paying II per cent. on deposits. A trifle over II per cent. is your net saving by buying burs a little in advance of your needs. 11 per cent. saved is II per cent. earned.

Burs (dozen, price \$2.25), per half gross\$12.00 3.00), " "

Slip=Joint Attachment No. 2.

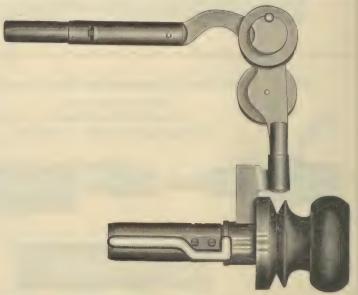
For Doriot Engine.

Made by The S. S. White Dental Mfg. Co.

Patented Sept. 29, 1885; Aug. 19, 1890; Aug. 22, 1893.

With this Attachment all Hand-Pieces fitted for the No. 2 Slip-Joint can be used on the Doriot Engine.

This includes Hand-Pieces Nos 4, 6, 7, 8; Angle Hand-Pieces, Obtuse and Acute, and Right Nos. 1, 2, 3.



Price of Attachment\$12.00

Various Forms of Hand-Piece Tools.

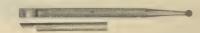
As several devices for holding tools in the different Hand-Pieces have been placed on the market from time to time, we illustrate the various forms to enable customers to order intelligently. Please specify the style wanted when ordering.

For Cone-Journal Hand-Pieces Nos. 2, 5, 6,



Patented Feb. 24, 1874; March 25, 1879.

No. 4. For the No. 4, No. 7, No. 8, and Universal Hand-Piece.



Patented Dec. 5, 1876; May 21, 1878. Reissue Aug. 6, 1878.

There are at present two forms of bits for Angle Attachments, of which we give illustrations.



For No. 1 or No. 3 Right-Angle. Pat. Dec. 5, 1876; May 21, 1878. Reissue Aug. 6, 1878.

For No. 2 Right-Angle.

Burs for Angle Attachments.

Sold at same price as regular size direct burs, but not made larger than diameter of No. 7 round bur shown on next page. We carry all forms in stock.

"Revelation" Excavating Burs.

Made by The S. S. White Dental Mfg. Co. Patented Nov. 1, 1887; Reissue Oct. 28, 1890. In England, Nov. 14, 1887.

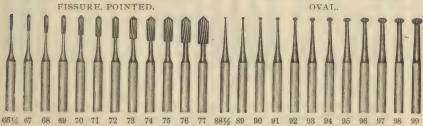




22½ 23 29 24 25 30 31 32 [33 331/2 34 35 36 37 \$2.25 doz. \$3.00 doz. \$2.25 doz. \$3.00 doz. BUD. FISSURE, SQUARE END.



\$3.00 doz. \$2.25 doz. \$2.25 doz. \$3.00 doz.



\$3.00 doz. \$2.25 doz. \$3.00 doz.

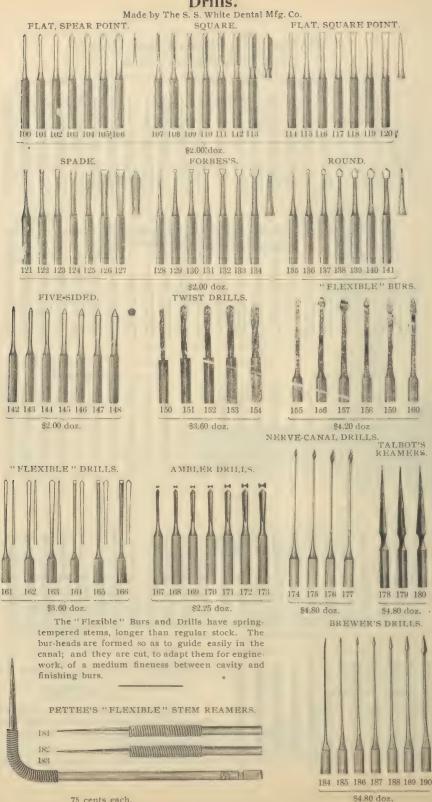


"Revelation" Dentate Fissure Burs.

Patented Nov. 1, 1887; Reissue Oct. 28, 1890. In England, Nov. 14, 1887.

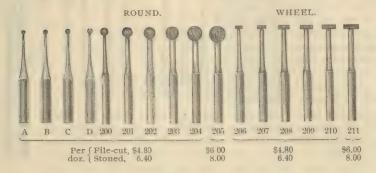
Particularly valuable for cutting tooth enamel. They replace nothing that has preceded them. Nothing can replace them. They are a new departure.

Price, per dozen.....\$3.00



Plug=Finishing Burs.

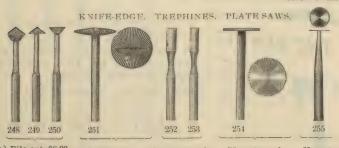
Made by The S. S. White Dental Mfg. Co.







CROWN SAW.



Per } File-cut, \$6.00. doz. } Stoned, 8.00.

\$1.25 each. 60 cents each.

75 cents each.

60 cents

Left-Cut Burs.

Made by The S. S. White Dental Mfg. Co.

Dr. C. Witthaus, of Rotterdam, Holland, has suggested the employment of Engine Burs operated by reverse rotation for the proper preparation of enamel margins in certain cavities otherwise liable to injury or even destruction under the action of the usual right-rotating burs, which, when acting at certain angles, are



apt to catch over the cavity edge and run away onto the tooth side, into the gum, or to roll up the rubber-dam in an exasperating way. The left-cut Bur is also useful in finishing fillings, the right margins of which may be cut toward the right side, whereas with a right-cut Bur they will cut toward the left pull-

whereas with a right-cut Bur they will cut toward the left, pulling the gold away from the cavity margin and tending to produce a leaky filling or a septicising crevice. We have therefore prepared certain suitable sizes of left-cutting finishing Burs which will serve to demonstrate the obviously useful nature of the suggestion.

To distinguish the left from the right-cutting Burs a groove is formed in

the bur-shank as shown in the enlarged illustration.

The nine sizes, shapes and numbers correspond with those of the Plug-Finishing Bur List. In ordering, specify Left-Cut, and for which Hand-Piece desired.

Price, each 50 cents.

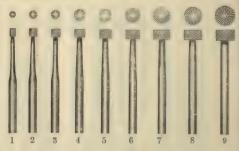
Inlay Burs.

Made by The S. S. White Dental Mfg. Co.

These Burs have straight sides slightly coned, and are fine-cut on sides and ends. They are designed to give a circular and smooth finish to the cavities made for the reception of the porcelain inlays.

They are also useful as plug-finishing burs.

PRICES.



Be careful to specify the Hand-Piece used.



Who is using Carborundum we can't say a word more than he in its favor. We sell it. He uses it. We are both enthusiasts. We would like to get into communication with any man who is not using it. See subsequent pages for list of engine goods.

LEE S. SMITH & SON,

SOLE AGENTS,

PITTSBURG, PA.

Engine Drills for Retaining-Points and Anchor-Screws.

Made by The S. S. White Dental Mfg. Co.



No. I forms a pit at exact point desired.

No. 2 bores only to depth of shoulder. Very desirable for use with anchor tap.

Price, No. 1 or No. 2...... 25 cents

Right Angle Drills and Taps.

As used in Howe's Retaining-Screw Process.

Made by The S. S. White Dental Mfg. Co.



For preparing and tapping roots in which posts are to be screwed.

PRICES.

Right-Angle Drills, AA, A, or B, each \$0.30 Right-Angle Taps, AA, A, or B '55 For price of R. A. Bit-Holder, see page 98.



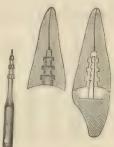
Root=Reamers.

Devised by Dr. F. A. Peeso.

Designed especially for preparing roots for Richmond and other crowns which do not have tapered pins. They do not cut on the end.

Price, Root-Reamers, Nos. I, 2, 3, each 60 cents.

Grooving Bur.



For cutting grooves in walls of root canals. When the grooves have been cut the canal is filled with gutta-percha, cement or amalgam. When the pin is inserted it forces the filling into the grooves, adding greatly to the strength of the operation.

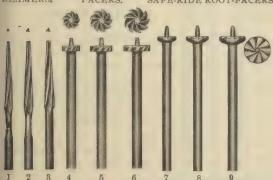
Price, each.....4oc.

Root-Reamers and Facers.

REAMERS.

FACERS.

Suggested by Dr. Rodrigues Ottolengui, SAFE-RIDE ROOT-FACERS.



The Reamers have smooth ends and cut only on the sides. They are used to enlarge the canal after it is drilled to the proper depth to fit the pin of the crown. The end of the root is then shaped with the Facer, whose guide-point acts as a pivot.

Safe=Side Root=Facers.

For paring the labial border of the root-end beneath the gum margin to conceal the junction of the crown with the root. The rounded side of the new Facer renders it safe from liability to wound the gum at its free margin.

PRICES.

Hub for Right Angle Taps.



By a set-screw the Tap can be fastened in the Hub, and thus at once be converted into a hand instrument. This will be found desirable in many cases in which the Tap cannot be conveniently used in the engine hand-piece.

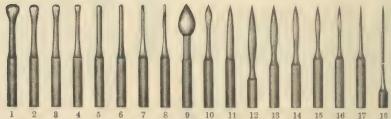
Price, each...... 20 cents.

Burnishers.

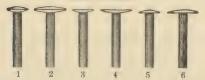
Made by The S. S. White Dental Mfg. Co.



Herbst's Rotary Burnishers.



Disk Burnishers. Made of Steel.

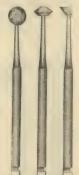


Nos. 1 and 2 are small and large Push or Pull Disks.

Nos. 3 and 4 are small and large Pull Disks.

Nos. 5 and 6 are small and large Push Disks.

Price, for either No. 4, 6, 7 or 8 Hand-Piece, each, 50 cents.



Corundum Cavity Points.

For beveling and otherwise shaping and smoothing the edges of cavities.

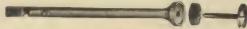
No. 1, Round; No. 2, Bevel Edge; No. 3, Inverted Cone.

Price, Unmounted, per doz., \$0.30.

Price, Mounted on Mandrels, per doz., \$1.30.

Disk Mandrel No. 317.

Patented October 10, 1893.

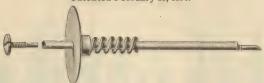


Provided with an elastic cushion which prevents Disk from slipping on the shank head when revolving either to right or left. Screw pin threaded but half its length, permitting quick adjustment of disk.

Price...... 50 cents.

The Positive Mandrel.

Patented February 13, 1894.



This Mandrel is a genuine success. It is universal, as it will Hold a Paper Disk, Hold a Carborundum Stone
'' Metal Disk or Saw, '' Rubber Disk

Or anything from the 1000 of an inch to 3% inch in thickness. When the screw and spring pressure is brought to bear on the Disk, it is held as in a vise. There is no wabble, it runs true and will not loosen or tear out; in fact, it is perfect and complete as Arkwright's Spinning Jenny.

A pin in the shank acts as a thread, on which the spiral spring rotates up or down

or to and from the screw head.

Instructions.

The Mandrel being held in the hand-piece reverse engine, run the spring down the shank, the entire length of coil, holding in such a manner between the fingers that the screw is removed at the same time. Thread the screw through the aperture in the disk. Enter the guide pin of the screw into the threaded aperture in end of shank, run engine forward by pressing the thumb on head of screw. By the forefingers run the coil up, while the screw is engaging in the thread, using a little pressure on coil to tighten. A little practice will enable an operator to work this Mandrel quicker than any in use. To hold Carborundum or other stone enlarge the aperture, so that it will pass over the end of Mandrel Shank as in above cut.

In ordering, state the hand-piece you desire to use it with.

Price......60 cents.

Disk Mandrel No. 318.

Patented Feb. 19, 1895. Made by The S. S. White Dental Mfg. Co.



The sleeve B springs forward from its sheath C and locks the disk so that it can be revolved to the right or left, and not pull out the pin. To release the disk while revolving, put the thumb-nail in the groove of B, push it back and let go: the spring will throw out the pin and disk.

It is a very ingenious and effective contrivance.

PRICE.

Dr. Peirce's Disk Carriers.

Made by Boston Dental Mfg. Co.



This Mandrel was devised by G. H. Peirce, D. D. S. It has on its face, which is solid, four pins, which pierce the disk and hold it positively secure, having a threaded pin, clasped by a thread spring, held in position by a sliding ring.

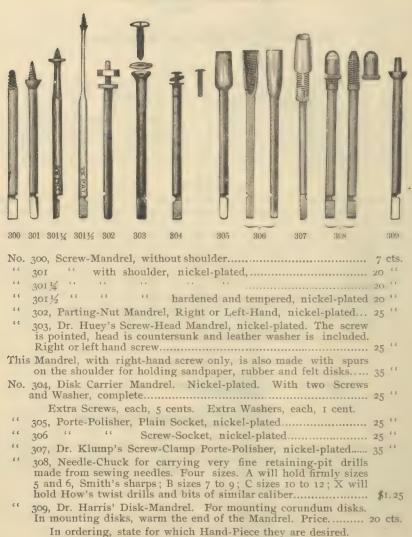
Its points of superiority are, absolute security and quick adjustment in removing or

replacing disk.

Price.....\$0.75

Mandrels, Porte=Polishers, Etc.

Made by The S. S. White Dental Mfg. Co.



Mandrels for Carborundum Wheels and Points.

No. 3.

Made to snugly fit centre holes of the Carborundum Engine goods. The offset is made of three lengths, $\frac{1}{16}$, $\frac{1}{8}$ and $\frac{1}{4}$ inches. A drop of cement is placed upon the wheel or disk and the Mandrel inserted. Heat applied to Mandrel causes cement to set immediately.

Price,	each	7	cts.
	per doz	75	6.6

.50



No. 310, For paper disks. The quick method of mounting with the adjusting-handle is shown in the skeleton cut. The disks are held firmly by the spurs, with little danger of becoming detached. Mandrel

	Price, Mandrel	50
	' Adjusting-Handle.	. 30
"	311, Improved patented, for paper disks. The cut shows the improvement, which	
	consists in serrating the feathered portion of the pin and the corresponding part	
	of the split socket, which, when clamped by the sliding collar, will not permit	
	the disk to pull out the pin. The split socket springs open when the collar is	
	pushed back, to readily re-lease the pin. The Improved Mandrel thus holds the	
	paper disk when running forward or backward under pulling or pushing pressure,	
	and admits of a quick change of disks	50

312 (Pat. February 9, 1896.) Dr. J. W. Smith's Mandrel, for mounting paper disks. Four spurs on the face of the split head penetrate the disk when the recessed cap-pin is pushed against it, the slide-ring clamping it firmly.....

313, Dr. S. G. Perry's. Practically the same as the No. 303, except that the screw-



head is drilled out in the center and the hole squared to admit the pointed screw-driver, which fits closely, and so prevents the loss of the screw	.30
" 314, Dr. S G. Perry's. Like 313, but intended for carrying Minim Disks only	
Screw-Driver for Dr. Perry's Mandrels	.25
"315 (Pat. May 10, 1887.) Dr. H. C. Register's, for mounting paper disks. A	
threaded feathered pin passes through the disk, enters the slotted head, and engages	
with the sleeve, which draws the head of the pin toward the Mandrel-head, clamp-	
ing the disk firmly. Will run in either direction. The disk cannot be dislodged in use without being destroyed, but is easily and quickly removed by grasping	

the milled sleeve by the thumb and finger while the Mandrel is revolving to the right..... .50 316 (Pat. January 20, 1891.) Dr. M. L. Rowe's, for mounting paper disks. Press the center of the disk against the screw-point, with the engine running slowly, until the blade passes through the disk and brings up against the collar. Then

pinching it over the little lug holds it securely.....

Dr. R. Arthur's Corundum Disks.

Patented July 2, 1878.

Dr. R. Arthur's
CORUNDUM DISK.

A
CUTTING.
S. S. WHITE DENTAL
MFG. CO.



A B C D E F G H I K L M N O P Q R

Arthur's Corundum Disks, A to N, and R, not mountedper doz. \$0.60

'' O to Q, '' ' ' ' 1.60

'' A to N, and R, mounted' 1.60

'' O to O. '' 2.60

Also made of very fine Corundum for polishing. When ordering for this purpose, please state "for polishing;" otherwise the regular grit for cutting will be sent. Can be used on Mandrels 300 and 309.

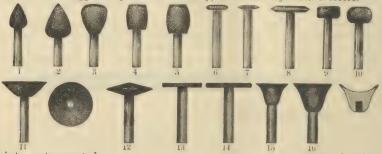
Root=Dressing Corundum Points.

Made of coarse corundum. The mandrel on which they are mounted was specially devised with a point projecting beyond the Corundum to serve as a center to hold it steadily to its work. These beveling Corundum Points cut rapidly and smoothly, without catching or jumping, and leave the end of the root, which, by inclining the hand-piece, may be beveled at almost any desired angle in beautiful shape.

PRICES.

Corundum Points.

Nos. 1 to 12 suggested by Dr. A. L. Northrop; Nos. 13 to 16 by Dr. E. C. Moore.



Points, not mounted per doz \$0.30 Mounted on Mandrels 1.30



Gem Disks and Points.

Made in same forms as Arthur's Disks and Northrup Point	ts.
Disks, A to N, not mounted, each 10 cents	doz \$1.00
" " mounted " 20 "	2,00
Points, not mounted, each, 5 cents	50
" mounted " 15 "	1.50
Cup Shape, not mounted	,72
mounted	· 172

Brown's Mounted Granite Disks.

Nos. 0, 1, 2, 3, 4, 7..... each 15 cents.

"Stump" Corundum Wheels.

Made by The S. S. White Dental Mfg. Co.



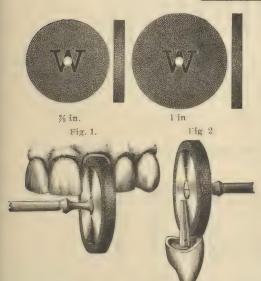
For the preparation of roots for pivoting, and for cutting off projections of natural teeth. Three sizes: ½ inch, ¾ inch, and 1 inch in diameter; the thicknesses are shown in the sectional cuts.

Prices of Corundum Wheels.

½ in	and ¾ in., unmounted	per doz.	0.60
	unmounted		.72
1/2 66	and ¾ in., mounted	. 66	1.60
	mounted		1.72
Jade i	u three grits. Fine for polishing and Medium and Coars	se for cutt	

Prices of Stump Gem Wheels.

1/2	in.	and 34 in. unmountedP	er doz,	\$1.00;	Eacho cents.
I	6.6	unmounted		1.25;	''12 ''
1/2	6.6	and 3/4 in. mounted		2.00;	''20 ''
ī	6.6	mounted	6 66	2.25:	"22



Safe=Side Crown Corundum Wheels.

These two Corundum Wheels are intended to be used on the Huey Mandrel, with one or both sides covered with a thin metal disk. So guarded they can be used to grind off a root without injuring the adjacent tooth. An equally important use is in grinding Logan Crowns, which is readily accomplished without risk of damaging the post. These two uses are shown in Figs. 1 and 2

PRICE.

7/8 incheach,	\$.06	per doz	\$.72
I inch "	.06		.72

Safe-Side Crown Gem Wheels.

PRICES.

7/8	inch,	per	doz.	 \$1.25
T	6.6	eact	1	 12

For prices of Bright-Metal Shields (Disks') two sizes, 7/8 and 3/4-inch, see page 111.

Safe=Edge Stump Corundum Wheel.

This stump Corundum Wheel has a brass tire, making the wheel safe-edge, so that it can be used to grind off the sides of a natural crown, as for a cap crown, without risk of wounding the gum. When the sides of the Wheel become worn by use, the edge of the tire can be readily turned off with a sharp tool.

Size of Wheel, I inch diameter.

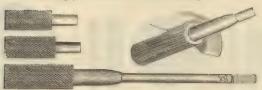
Price.....each, 15 cents.



PF

Herbst's Rotary Files.

Made by The S. S. White Dental Mfg. Co.

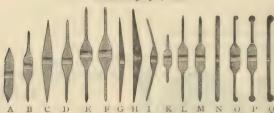


For rapidly, safely and truly cutting natural tooth-roots to receive artificial crowns. The outer end of the File is used to cut down to the gum border, finishing with the heel, which will cut below the labial margin of the gum without wounding it. Made in three sizes, Small, Medium, and Large.

PRICES.		
Mounted, complete	each	\$0.50
Porte-Polishers, separate	6.6	.25
Files	6.6	.25

Rubber and Corundum Disks.

Patented July 2, 1878.

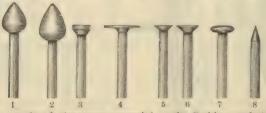


These Disks will be found excellent for separating teeth, because of their extreme thinness. Made of vulcanized rubber and selected corundum, the latter being thoroughly incorporated with the former. Can be used on Mandrels Nos. 302, 303, 304, and 313.

PRICES.

Rubber and Corundum Disks, A to N, not mounted......per doz. \$0.60

Rubber and Corundum Points.



These Points are made of the same material as the Rubber and Corundum Disks, and will be found effective in cutting tooth-material or dressing off fillings.

They are solid throughout, and they can be used as long as enough of the material remains to be grasped by the porte-polisher. Used with Porte-Polisher No. 307.

Price......per doz. \$0.60

Shellac for Mounting.

For the convenience of operators in mounting disks and points we have had Shellac prepared in sticks ¼-inch diameter, 3 inches long, put up in boxes of one dozen. Prepared also in powder for the same purpose.

Price,	in Sticks	per box,	25	cents.
6.6	Powder	- 6.6	TO	6.6

IN ALL AMERICA



... THERE IS NO WHEEL
THAT CUTS LIKE A ...

CARBORUNDUM · WHEEL

FOR THE DENTAL ENGINE:

ALL APPROVED FORMS IN WHEELS, DISKS AND POINTS.

CARBORUNDUM

The Extra Man in the Office.

Sole Agents for the Dental Trade,

LEE S. SMITH & SON,

DENTAL DEPOT,

524 Penn Avenue,

PITTSBURG, PA.

_See Pages 106, 107 and 108.

Carborundum Company, M'f'rs, Niagara Falls, N. Y.

Carborundum.

ENGINE GOODS.

There isn't anything made to compare with Carborundum. There isn't anything made that will cut down a tooth in anything like the same time. It walks right into it. It is made for that purpose.

It doesn't grind. It cuts. Just as diamonds of equal sized crystals would cut. Cuts until there's nothing left of it.

If you want to use it wet, use it wet. It doesn't matter about that. It cuts wet just as well as dry. Dry just as well as wet.

STUMP WHEELS.

Square Edge.

Made in diameter ½, 5/8, 3/4 and 1 inch, thicknesses as shown.

No.	Diam.	Thick.	Price.	No.	Diam.	Thick.	Price.
100 101 102 103 104 105 106	1/2 1/2 1/2 1/2 5/8 5/8 5/8	1 1 6 1 / 8 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 6	15c 15c. 15c. 15c. 15c. 15c. 15c.	108 109 110 111 112 113 114 115	3/4 3/4 3/4 3/4 1 1 1	1 1 6 1/8 3 1 6 1 4 1 1 6 1/8 1 6 1/4	15c. 15c. 15c. 15c. 15c. 15c. 15c.

STUMP WHEELS.

Round Edge.

Made in diameters ½, ¾ and 1 inch, thicknesses as shown.

No.	Diam.	Thick.	Price.	No.	Diam.	Thick.	Price.
120 121 122	1/2 1/2 1/2 3/4	1/8 3 1 6 1 8	16c. 16c. 16c.	123 124 125	3/4 I	3 1 5 1 8 3 1 6	16c. 16c. 16c.

Made in four grits. C, D, E and F.

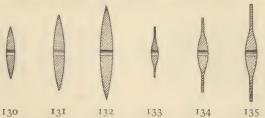
Coarse, Medium Coarse, Medium and Fine.

Carborundum.

ENGINE GOODS .- Continued.

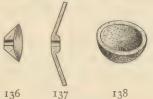
DISKS.

These forms are invaluable. They are stronger than Corundum. They are not brittle as other vitrified disks. There isn't an office anywhere where they are not used.



CUPS.

For cutting around stumps to be crowned and points difficult of access.



The cups, any form, each......15 cents.

POINTS.

The Points are not mounted. For illustration of special mandrel and instructions for mounting, see page 100.



PLAIN POINTS.

Made in diameters of $\overline{2}_{18}$, $\frac{1}{4}$ and $\frac{3}{2}_{18}$ inches, thicknesses as shown and in both square and round edge.



Square Edge, 8 cents each.

Round Edge, 10 cents each.

NUMBERS.		Diam.	Thick.	NUM	BERS.	Diam.	Thick.
Square.	Round.	Diam.	Diam. Inick.		Round.	Diam.	THICK.
150	162	3/16	1/16	156	168	1/4	3/16
151	163	3/16	1/8	157	169	1/4	1/4
152	164	3/16	3/16	. 158	170	3/8	1/16
153	165	3/16	1/4	159	171	3/8	1/8
154	166	1/4	1/16	160	172	3/8	3/16
155	167	1/4	1/8	161	173	3/8	1/4

"Holdfast" Truing Tool.

FOR TRUING CARBORUNDUM ENGINE AND LATHE WHEELS.

A diamond mounted in a cone socket point. Run the wheel at a high speed. Hold the diamond to its work. It does the business every time.

CARBORUNDUM PAPER DISKS.

This is the paper disk that is better than all the others. It is so much better that if it is used once it will be used always. We are willing to make an issue of the trial.

There isn't one reason why it shouldn't be the best. Carborundum cuts faster than anything else. If paper disks could be charged with diamonds they couldn't cut any faster than these disks cut. The finer grits polish while they cut. They are good from start to finish.

The disks we make are made right. We mastered all the details before we offered them for sale.

You get the best when you specify our make—there are imitations.

Four Grits.

Coarse. Medium Coarse. Medium and Fine.

Four Sizes.

½ inch. ½ inch. ¾ inch. ½ inch. Boxes Separately.

They cost just the same as common disks.

PRICES.

Box of 100 disks......10 cents

THE MAKERS,

LEE S. SMITH & SON,

DENTAL DEPOT,

524 Penn Avenue,

PITTSBURG, PA.

Improved Diamond Wheels, Disks and Points.

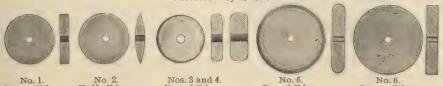
Made by The S. S. White Dental Mfg. Co.

Patented May 1, 1877.

Diamond Disks, Wheels and Points, when properly made and properly used, are the perfection of clean, sharp, rapid-cutting devices for dentists' use. Proper use means keeping them wet when in operation, and allowing them to ''feed'' themselves without being pushed.

Improved Diamond Wheels.

Patented May 1, 1877.



No. 2. Knife Edge. No. 1. Square Edge.

50 cents each.

Round Edge.

No. 5. Round Edge.

Square Edge.

The value of Diamond Wheels in heavy work, as the dressing of roots, is well known. Nos. 1 and 2 are charged all over; Nos. 3, 4, 5 and 6 on the Made in six sizes and forms. edge only, with smooth sides.

PRICES.

			Edge,	1/2-1	inch	diamete	$r, \frac{8}{32}$	-inch	thick	 	each	\$1.25
6.6	2,	Knife	6 6	6.6	6.4	6.6				 	6 6	I.25
6.6	3.	Round	1.6	6.6	6.6	6.6	5	inch	thick	 	6.6	1.00
6.6	1.	6.6	4.4	6.6	6.6	6.6	6	6.6	6.6	 	6.6	1.25
6.6	77	4.4	6.6	3/	6.6	4.6	5.	6.6	6.6		6.6	T 75
"	6,	Square	4.4	14	6.6	6.6	3 2		6.4	 	6.6	I.75

Improved Diamond Points.

Patented May 1, 1877.

The forms of these Diamond Points were selected specially for their applicability to the needs of crown and bridge-workers, to whom they will be invaluable. The Points are charged all over. Used with Porte-Polisher No. 307. (See page 100.)

Improved Diamond Disks.

\$1.00.

Regular.—Charged all over. Will cut as well on the edge as on the sides. The regular are always sent unless Thin or Safe-Side are specified. Two sizes: No. 1, ¾-inch; No. 2, ¾-inch.

Thin.—Charged all over. Same sizes as the regular.

Price of either Regular or Thin......each \$1.75

75c

Safe-Side.—Charged on one side only, the other being made smooth or "Safe," thus doing away with the need of a shield. Two sizes, No. 3, %-inch; No. 2, %-inch. Price, each \$1.25



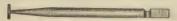
Fissure.—Will cut on both sides and on the edge. They are made $\frac{5}{16}$ -inch in diameter.

Price, each.....50 cents.



Small Fissure.—A 3-inch size. Permanently mounted, and not sold separately. Price for any hand-piece..... 50 cents.

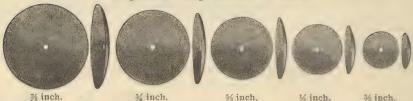
Diamond Starting=Point.



For removing the enamel surface as a starting point in drilling natural or artificial Excellent in smoothing cavity-margins, etc.

Price, each50 cents.

Teague's Depressed Disks.



These Disks are made to fit the convex surface of a tooth and thereby preserve the contour in dressing a filling. Cut from Sand Paper, Emery Paper, Cuttlefish Paper, Carborundum Paper, Emery Carborundum Cloth and Crocus Cloth. Coarse and fine grits of each, except Crocus Cloth; this is of a very fine grit for a lustrous polish. In addition to the above material, Disks of fine and coarse Garnet Paper are put in the boxes of Assorted Disks. A chart for accuracy in ordering Depressed Disks furnished on application.

Depressed	Paper Dis	sks	in boxes of	TOO.	I5 cts.
*C C	Cloth				25 ''
6 6	Assorted '	siz	es5%in.,34in.,		
6.6	6.6	66 66	½in., 5%in., 3¼in.,		
6.6	6.6		3/sin. ½in. ½in. ¾in. ¼in. ; '		

SOLD BY THE TRADE, OR BY

DR. B. H. TEAGUE,

AIKEN, S. C.

Paper and Cloth Disks.

The boxes containing 100 Disks are supplied of the following diameters: 38, 12, 36, 34, 76 inch and minim (14 inch.)

Emery and Sand Papers in three grits, 00, 0, 1. Garnet Paper in three grits, 00, 0, 12. Emery Cloth and Cuttle-Fish Paper in one grit only, fine.

The boxes of 525 Disks are of assorted diameters, %, ¾ and % inch, and contain 150 disks each Emery Paper, Sand Paper, Cuttle-Fish Paper and 75 Emery Cloth.

Can be used on Mandrels Nos. 302, 303, 310, 313, 315, 316, 317, and 318.

PRICES.

Paper Disks, either kind (100 in a box).....per box \$0.10 The 3/4-inch diameter is always sent unless otherwise specified.

Double=Face French Emery Paper Disks.

The economy of Paper Disks with both sides usable in cutting or polishing is apparent as soon as the idea is suggested. These Disks afford the opportunity for exercising this economy.

Made only 34-inch diameter. Put up in boxes containing 100 each. Can be used on Mandrels Nos. 302, 303, 310, 313, 315, 316, 317, and 318.per box 15 cents

Thickened-Rim and Sand Paper Disks.

Made by The S. S. White Dental Mfg. Co.

Convenient for removing superficial decay and finishing fillings near the gum-margin or for contour work. Put up in boxes of 400 each as follows:

Assorted Grits. All oo, or Fine. All No. 1, or Coarse.

Price of either size or grit......per box, \$1.00







% in. diam.

For Prices of Carborundum Paper Disks, see page 108.

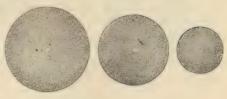
Celluloid Disks.

Made by The S. S. White Dental Mfg. Co.
Patented August 13, 1878.

The abrasive material (Corundum) is forced into the Celluloid instead of being merely carried upon the surface.

Made of four diameters, viz: %-in., %-in., %-in., by-in. Put up in boxes containing one dozen of a size, not assorted.

Price.....each 3 cents, or per doz. 25 cents.



Plain White Celluloid Disks.



About half as thick as Paper Disks. Last much longer. Being flexible they will bear any curve so that any part of an approximal surface can be reached with them. Used wet they do not heat the teeth as dry disks do. For cutting and finishing after the dam is removed they are far superior to paper, as saliva has no effect upon them. They should be mounted on a screw-head mandrel, say No. 303, with a small rubber washer placed on either side of the Disk. In stock ¾-in. diameter.

Dip the Disk in water and apply Carborundum powder.

Price, per box of 100......40 cents.

Separating Saws.

For making separations between teeth. The saw-teeth are too fine for exact illustration, but an idea of the delicacy of the cut which they will make can be gathered from an inspection of the side cuts. Made in two sizes, $\frac{9}{16}$ and $\frac{3}{4}$ -inch diameter.





No. 1. No. 2,

Bright Metal Shields.

These Shields are for use with Corundum or Carborundum wheels to make them safe-sided. They are thin disks of bright metal, concaved towards the side of the wheel with the centre of the convex side depressed for the head of the-mandrel and screw. They can be used on one or both

sides of the wheel. Two sizes respectively, % and ¾ inch.

Similar Shields are also made of the same sizes, but without the depressed center, for use with paper disks.

Price, either style, each.....5 cents.

Moose Hide Polishing Points.

For carrying pumice or other powders to clean teeth or polish fillings. A moment's use when wet causes them to conform perfectly to the surfaces to which they are applied, when they become like a brush, passing readily between the teeth to the point of close contact.

Their extreme toughness gives them a firm hold on the mandrel. They can be used on any screw mandrels. A thimbleful of pumice-powder should be mixed with water in a small dish, and into this the point should be dipped from time to time.

Price, 50 Points, assorted sizes, per box.......50 cents.

Paper Disk Easel.

This device keeps Paper Disks always handy, with sizes and styles neatly separated and right to hand ready for immediate use. Five rows of five pegs each, mounted on the face of a wooden Easel, afford places for a complete variety of sizes and styles. The Easels as sold are loaded with 525 Disks, as follows: Assorted diameters 38, 12, 112 Disks each Emery Paper, Sand Paper, Cuttle-Fish Paper, Garnet Paper, and 77 Emery Cloth.

All the dentist has to do is to decide on the size and grit of Disk wanted, and it is there ready to be mounted on the mandrel, and handy to get at. The Easel is neat, and can be set

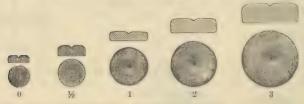
up on the bracket-table or hung up anywhere convenient to the operator.

Corrugated Soft-Rubber Disks.

Made by The S. S. White Dental Mfg. Co.



Leather Polishing Wheels.



Sometimes designated as Moosehide or Hard Buff Polishers.
For carrying Carborundum and other powders to clean teeth or polish fillings.
Put up in boxes of 100. Five sizes.

Chamois Disks.

Patented August 7, 1888.

With these Disks, a finishing polish of the finest degree may be quickly given to gold work of every kind in the mouth. The Disks are hard and smooth on one side, and on the other side have a feel like the inside surface of chanois-skin. They will also carry wet polishing-powders of every sort, and pass between teeth which almost touch each other. By this means an inconspicuous dead surface can be given to gold restorations of the oral teeth. When used wet or dry and without any powder for the final finish, the result is a polish of surpassing luster and beauty.

Made in four sizes, ½, 5%, ¾, and ½ inch. Put up in boxes of 25.

Price, either size, per box.....25 cents.

Washers for Engine Disks.

Cut from rubber cloth and put up in convenient form. With them the Disk may be clamped more securely and is less likely to tear out in centre.

Corrugated Soft Rubber Points.

Made by The S. S. White Dental Mfg. Co.



2 3 4 5 6 7 8 9 10 11 12

Used for carrying powders, either for polishing the natural teeth or for finishing fillings. Can be used on Mandrels Nos. 300, 301, 302, 303, 313, 317, and 318, the five last named being preferable for Points Nos. 8, 11, and 12.

Points, Nos. 1 to 12, not mounted......per doz., 40 cents...each, 4 cents.

Tooth=Polishing Brush.



The fan-like edge of this Brush will carry polishing-powders under the free margins of the gums without injury. The cervical margins of fillings may also be perfectly polished in the same manner.

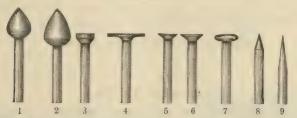
Three grades, soft, medium, and stiff. Can supply extra stiff separately on order. Used with the Porte-Polisher No. 307.

 Price
 per doz. \$0.30

 "
 each
 .03

 "
 per gross 3.00

Wood Polishing Points.



Leather and Felt Buffs. Assorted Forms, Nicely Finished.

Assorted Forms, Nicely Finished.

They can be mounted on our regular Blank or Shouldered Screw Mandrels.

PRICES. ______per doz. 75 cents.

Carborundum Powder.

Whether used on soft rubber points, polishing brush, point or buff, will put a finish on a filling in less time than anything else.

There's a lot of satisfaction in it. See page 115.

New Diamond Drills.

These Diamond Drills are entirely different from any others heretofore in use, and should not be confounded with them.

The Diamond Points in these Drills are carefully selected for the purpose and are

The Diamond Points in these Drills are carefully selected for the purpose and are of the very best quality; they are set in the steel shanks in such a manner as to render it simply impossible for them to become loose or drop out.

The Diamond having considerable projection from the shank, the point is left perfectly free without the metal part offering any resistance whatever in the manipulation. While in use the drills should be kept constantly wet or in oil, and too heavy a pressure on them during the operation should be avoided. It would also be well to withdraw the Drill repeatedly from the cavity in order to prevent binding and have it always work free. A breakage is only worship in cases where the ing, and have it always work free. A breakage is only possible in cases where the Drill has been improperly used.

H. D. JUSTI & SON.

Philadelphia.

Chicago.

Stowell's Diamond Drills.



Any Size-Any Hand-Piece-Price, \$3.00.

The only guaranteed Diamond Drill ever offered to the trade, arts or profession.

Genuine white diamonds are selected and cut especially for these Drills and so mounted as to cut laterally or in advance without breaking, loosening or coming out. Each Drill is tested by boring 4 inch into porcelain before leaving shop. They will cut ten times as fast and last ten times as long as any other Diamond Drill. Your dealer will give you a new Drill in case yours does not prove satisfactory; on condition that old one be returned. Ask your dealer for them or send direct to.

GIDEON SIBLEY, Sole Agent,

Philadelphia.

Chicago.

Diamond Drills.

Made by The S. S. White Dental Mfg. Co.

These Drills are made by compressing the split ends of a split mandrel upon and around the spark of diamond. The cutting qualities of the Diamond Drill are unrivalled. In careful hands it will give satisfaction, but it is not recommended for indiscriminate use and is not guaranteed.

Price, each.....\$1.00.

Improved Finger Sponge Holder.

Devised by Dr. Gordon White.

An adjustable finger-ring carries a little hook for catching in and holding a bit of sponge. The ring will fit any finger. In dressing down a root, in grinding a crown or polishing bridge-work it will be found a convenience.



Price, each...... 40 cents.



One of the most useful forms of this wonderful artificial mineral. We can supply any grit that may be desired, but for operators furnish boxes of convenient form, containing the

SIX MINUTE POWDER.

This imparts an unequalled finish to metallic fillings, cutting while polishing. It is just as good in its place as the balance of these celebrated goods. It is also valuable for polishing steel and other instruments.

The busy dentist can't do without it.

Price, per box......15 cents.

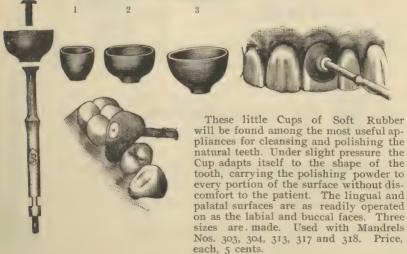
Polishing Powders.

Used with felt and leather buffs, wood points and disks, hard-rubber disks, and particularly useful with soft-rubber disks.

Arkansas Stone Powderpe	r box.	\$0.25
Buckhorn Powder, large boxes	661	.38
Chalk, Preparedper lb. \$0.12	6.6	.10
Crocus	6.6	,10
Corundum Flour	6.6	.25
" Extra Fine	6.6	.25
Emeryper lb. \$0.20;	6.6	. 10
Hindostan Stone.	6.4	.12
Pumice Stoneper lb. \$0.10;	6.6	. IO
Rotten ''	6.6	.IO
Rouge	6.6	.20
Tripoli	6.6	.10

Soft Rubber Polishing Cups.

Made by The S. S. White Dental Mfg. Co. Patented May 10, 1887.



Willard Countersink Burs.

Made by The S. S. White Dental Mfg. Co.

The Fissure-Bur (No. 13) is useful in cutting down and shaping the root; its rear portion cuts below the margin of the gum without wounding it.

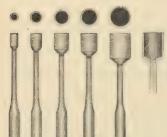
The convex shaped Bur (No. 14) will give a cup shape to the root.

PRICES.

Fissure Bur,	No.	13	each,	60	cents.
Convex Bur,	No.	14	6.6	75	6.6

Diamond Trephines for Porcelain Inlaying.

Patented May 1, 1877.



For cutting from the surface of any porcelain tooth, a section of exact shade for inlay-work. The Trephines are made of copper charged with diamonds.

The sizes correspond with 1, 3, 5, 7 and 9, of the set of Inlay Burs which are used to prepare the cavity.

PRICES.

No.	I5oc.	No. 55oc.	
No.	35oc.	No. 7 75c.	
	No. 9	75c.	

Inlay Mandrels.



These Brass Mandrels will hold the Inlay securely, however wet it may get. By inverting the No. 2 Mandrel in the Porte-Polisher it will also hold the No. 3 Inlay (see Fig. 3).

Prices—Inlay Mandrels, each, 10 cents; set of 3, 25 cents.

New Set of Root Reamers.

Devised by Dr. Geo. Evans.

When natural crowns have been reduced by carborundum wheels and points, use Reamers Nos. 1 to 3 for rounding off regular points. No. 4 is a scraper with three sides for successive use, and is used in hand socket only.

Prices, Nos. 1, 2, 3, each, 35 cents. No. 4, each, 25 cents.



Implantation Instruments for Younger's Operation.



FRICES.		
Walker-Younger Trephines	each	\$1.00
Younger Reamers.		. 75
Rollin Spiral Knives, Nos. 1 and 2	6.6	1.25
"Tubular "No. 3	4.6	2.00
Ottolongui Pagmara	6.6	2 25

Tubular and Circular Engine Knives.

Ottolengui Reamers

For Treatment of Abscesses, Etc.

Invented by Dr. William Herbert Rollins.

Nos. 1, 2, 3 are Tubular Gum Knives. For dissecting out the overlying gum from an erupting third molar. Their inventor claims

decided advantages over gum scissors.

No. 4, 5, 6 are Tubular Abscess Knives.

These may be also used as explorers. A minute core of tissue for microscopic examination may be removed with them.

No. 7 is a Circular Knife, the uses of which

are readily apparent.

Made for Hand-Pieces Nos. 4, 6, 7 and 8. Nos. 1, 2, 3 and 7 are also made for Nos. 1 and 2 Right-Angles.

~ ~						is.		1.	dr-
Nos.	I,	2,	3.	 		 000	 	.each,	\$2
Nos.	A	E ^b	6					6.6	2
TIOS	49	J1	U.	 001	000	 	 	6.6	-

Allport's Burs

For Cutting Diseased Bone In the Treatment of Pyorrhea Alveolaris, Etc.

A, B, C are coarse-cut round stoned Burs for operating upon the dead or diseased bone between the roots of the molars.

D, E, F are conical Burs, milled only on the point and smooth upon the sides; intended for cutting away the edge of the diseased alveolus.

These Burs have extra long shanks to prevent the hand-piece from coming in contact with the teeth.

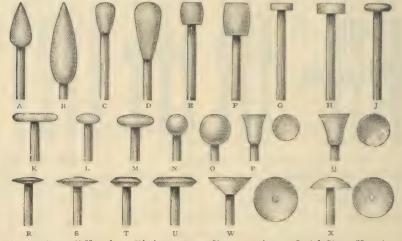
Burs, A, B, C......each, \$0.50



Arkansas, Hindostan and Scotch Stones.

Made by The S. S. White Dental Mfg. Co.

The illustrations show forms and approximate sizes. They are mounted on mandrels before being shaped; hence cannot be supplied unmounted.
In ordering state for which hand-piece they are desired.

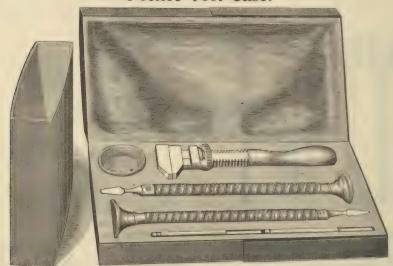


Arkansas Stone, \$1.00 each.

Hindostan Stone, 50 cents each.

Scotch Stone, 30 cents each.

Pocket Tool-Case.



Contains tools for taking apart and assembling hand-pieces.

Engine-Bit Oiler.

The Bit is passed through a leather washer into the oil chamber; when withdrawn the leather removes excess oil. The use of this device prevents introduction of rust into hand-piece by means of Bit.

Price, nickel-plated......50 cents.



Steel Wire Wheel Brushes

For Cleaning Burs and Files. Made by The S. S. White Dental Mfg. Co.



No, 1. 1 in. diam.

Price, each.......\$0.40 To be used on Mandrels Nos. 300, 301.



No. 2. 1% in. diam.

Price, each......\$0.50



Chuck for Carrying Wheel Brush No. 2.

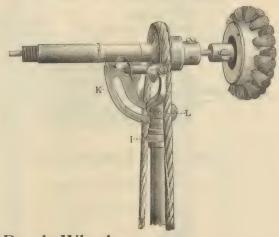


Price\$0.25

Wire Wheel No. 2 in Position.

Wire Wheels mounted as shown are revolved simultaneously with the engine-bit, and are thus available for clearing debris from the burs whenever the engine is in operation, a few touches of the instrument on the Brush being sufficient.

Price, No. 2, complete, with Chuck \$0.75



Tooth=Brush Wheels.

Bone Center.



No. 1.



No. 2.

Three grades, Soft, Medium, and Stiff. No. 1. Cup Shape, with Stem, to be used with Porte-Polisher No. 307\$0.20 No. 1. Cup Shape, without Stem, for Mandrels Nos. 300, 30I..... .20 No. 2. Straight, with Stem, used with Porte-Polisher No. 307..... .25 No. 2. Straight, without Stem, for Mandrels Nos. 300, 301. .25 Tooth Brush Wheels with metal centre, instead of Bone. Soft and Stiff, Straight or Cup Shape, each..... .25

Driving Belts. For the S. S. White Dental Engine, A, B, C, D.each 10 cents.

6.6	6.6	" Side-Wheel Engines, E, F, G, H, Endless]	5	
6.6	6.6	Weber-Perry Engine, Endless	" 2	10 (1	
6.6	6.6	Johnston Dental Engine	· · I	0 "	
		Improved Shaw Dental Engine			
6.6	6.6	Bonwill Dental Engine, Endless	'' 1	5 ''	
6.6	6.6	Elliott Suspension Dental Engine, Endless]	5	
		Doriot Engine, Endless			
		Please designate as above when ordering.			
Spec	ial	Endless Relts will be made to order When ordering special	Relts	send e	exac

measurement.

Dental Engine Lubricant.

A vast amount of injury is done hand-pieces and engines by improper Lubricants. The Oil we carry in stock is exactly adapted to the purpose intended. It is positively without an objectionable feature.

Oil Can.

Patented July 31, 1877; November 2, 1893. Made by The S. S. White Dental Mfg. Co.



This Oiler is the most convenient and best adapted to oiling fine machinery that has been invented. It is filled in the usual way by unscrewing the tube.

Part A answers two purposes: It securely closes the can, and the pin serves to convey the oil when it cannot be conveniently dropped from the tube.

Cut is about one-half actual size.

Price, each.....\$0. 15

Stands for Engine Bits

Made by The S. S. White Dental Mfg. Co.

No. 3 Patented March 2, 1875.





No 1



The cuts illustrate three varieties of Stands for the convenient keeping of Engine-Bits. They are of polished or ebonized wood.

No. 1 is 5 inches in diameter, 1 inch high, containing 72 holes.

No. 2, same, with glass cover, but containing only 60 holes.

No. 3 is 3½ inches in diameter, 3½ inches high, containing 48 holes.

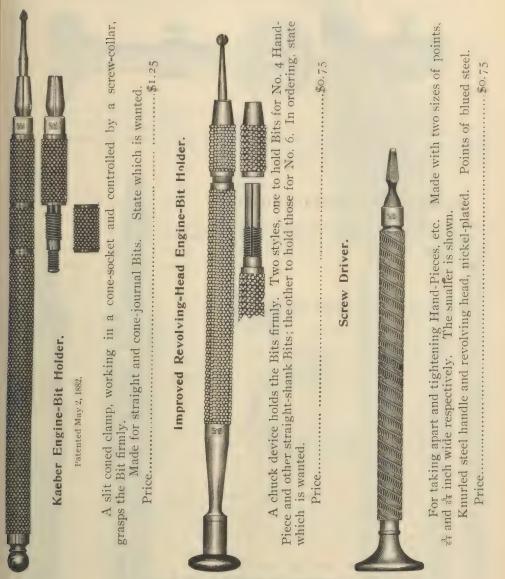
No. 4 is 4¾ inches in diameter, 4½ inches high, containing 78 holes.

No. 5 is a Revolving Stand, 7 inches in diameter, 7½ inches high, containing 120 holes.

No. 1.....\$1.00 No. 3......\$1.00 No. 5......\$3.00 No. 2..... 1.50 No. 4..... 1.50

Engine=Bit Holders and Screw Drivers.

Made by The S. S. White Dental Mfg. Co.



THE USE OF SCREW DRIVERS.

The small Screw-Driver shown on this page is almost indispensable for the purpose for which it was made, namely—the taking apart and putting together of Hand-Pieces. It is exactly adapted in size of points to the slots of the small screws in Hand-Pieces. It is not intended for work in the larger screws of the dental engine, and can only be used upon them at the risk of being broken and ruining the screw-head. On the other hand, larger Screw-Drivers are absolutely unfit to be applied to the small screws of Hand-Pieces. We have seen Hand-Pieces disabled by their use.

Disk Mounter.

Made by The S. S. White Dental Mfg. Co.
Invention of Dr. W. T. Shannon.



For Mandrels adapted to all Clutch Hand-Pieces.

For Mandrels adapted to the Cone-Journal Hand-Pieces.

To mount a Corundum Disk, warm the end of a screw-mandrel or an old bur over a spirit tamp, pass it through the center of the disk, and while still warm pass the mandrel into the Mounter, pressing the face of the disk against the face of the Mounter until cool, when the mounted disk will be found firm and true.

To Mount a Carborundum Disk.

Place a drop of any phosphate cement upon the opening in Disk and proceed as above. If the shank be slightly heated it will cause the cement to set quickly.

Price, either form\$1.00

Wilmington Engine Mallet, No. 1.

Patent Pending.

At an average speed of one hundred and twenty revolutions per minute of the engine wheel this plugger will give ten thousand blows; and the force of the blow is regulated by simply pressing the point lightly or heavily against the filling.

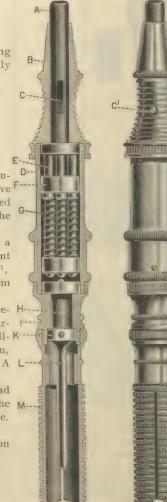
A is a socket into which the point is inserted. It has a longitudinal movement of 1-32 of an inch in the front end, B, which is regulated by the slot C. The screw, C¹, is inserted in the slot C, and prevents the socket A from turning when points are inserted or removed.

The five plungers, E, slide in the cage F, and are retained in a normal position by the springs which surround them. These springs prevent the plunger from fall-K--ing against the cam H, when held in a vertical position, thereby avoiding any rattling, and also keep the socket A L-forward.

The cam H has a rounded rib on its working face, and rotates in the back bearing I; it is held in place by the M--collar K, and has an extension L, which fits the hand-piece. The case M is split so that it will fit closely.

Furnished to carry either the Snow & Lewis, Salmon or cone-socket plugger points.

PRICES.



The Bonwill Improved Mechanical Mallet, No. 2.

Made by The S. S White Dental Mfg. Co.

Patented Sept. 29, 1885; March 6, 1888; April 30, 1889; Aug. 19, 1890.

The blow is delivered by a revolving hammer, a metal wheel with a steel plate let into its rim, and projecting sufficiently to strike the head of the plunger at each revolution of the wheel.

The rapidity of the blows is only limited by the speed at which the engine is run. The force of the blow can be varied by running the engine faster or slower, or by greater or less pressure on the plugging-point.

The Mallet (Fig. 1), is shown with the No. 1 Slip-Joint attached.

The No. 2 Slip-Joint is shown in Fig. 2.

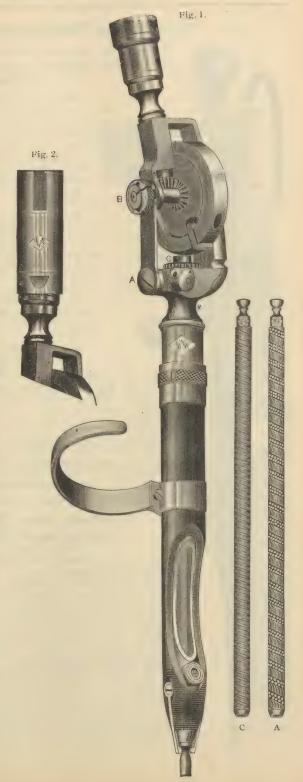
The Mallet can be used with Hand-Pieces Nos. 4, 6, 7, or 8, or with the Slip-Joint Connections Nos. 1 or 2, and can be operated with any engine.

The Socket Handles C and A are for use in this Mallet.

Handle C is for Cone-Socket Points.

Handle A is for Automatic Mallet Points.

Price of Mallet, including six Socket Handles.... \$10.00



R

The Bonwill Electro-Magnetic Mallet.

Made by The S. S. White Dental Mfg. Co.

For use with Battery, 110-volt Direct Current, or S. S. White Transformer.

Patented Oct. 15, 1878. Reissue July 13, 1880.

This Mallet will be found to approach more nearly the deal condensing instrument than any other ever offered to the profession.

The blow is delivered upon the packing instrument just when its force is greatest, because the attraction of the magnets increases constantly as the Mallet approaches them until the circuit is broken.

The force of the blow can at all times be controlled by the operator.

Properly used, it condenses the gold thoroughly and evenly throughout the entire filling.

Gold may be impacted against thin, frail walls with ease, and without fracturing the enamel.

It saves the operator time and the fatigue attendant upon the use of a hand, automatic, or foot-power Mallet.

When its operation is understood and the battery is kept in order as per instructions which accompany each Mallet sold, the instrument cannot fail to give satisfaction.

The Mallet requires 6 to 8 volts and 3/8 ampere.

PRICES.

Mallet, without Interrupter, for use with Transformer (see page 75) 35.00

Partz Acid Gravity Battery. For the Bonwill Electro-Magnetic Mallet.

(WHERE CURRENT IS NOT OBTAINABLE.)

Where street current is not available, the Partz makes a perfect sub-

stitute for this particular use.

K THE S. S. W. D. M. CO.

Over and beyond its perfect adaptation, the Partz Battery is long-lived; requires to be charged only at long intervals, and is readily and quickly charged when necessary; there is no handling of acid solutions in charging; no appreciable waste when not in use.

The consumption of Sulpho-Chromic Salt by four cells in daily use

is from 1 to 2 pounds per month.

PRICES.

Single Cell, complete	 3.50
Set of 4 Cells in Black Walnut Box	
Set of 6 Cells in Black Walnut Box	
The Boxes are neatly finished and provided with handle	
pole screws. Sold separately at \$6.00 and \$9.00 respectivel	

22

The Snow & Lewis Automatic Pluggers, Nos. 1 and 2.

Manufactured only by the Buffalo Dental Mfg, Co., Buffalo, N. Y., U. S. A.

DIRECT ACTION.



The Snow & Lewis Automatic Plugger has been in use since 1865, and it stands as well in favor at present as it has at any time since its introduction. It was the first successful Spring Plugger brought to public notice, and nothing has been offered in the market since its first appearance which compares with it for efficiency. The best proof of its excellence, and the public appreciation of it, is found in the constantly increasing demand for it.

There are more Snow & Lewis Automatic Pluggers sold than all other makes combined. There are lots of reasons for this. The first is because they are made right. They are built on honor. Second is because of their simplicity. The mechanism is shown in sectional drawing. No person could design anything more simple to do the work these Pluggers are built for. They are well balanced, do not tire the hand and are all right.

Full directions accompany each Plugger sold.

PRICE.

Snow & Lewis Automatic Plugger
No. 1 or 2, nickel or silver plated, \$7.00

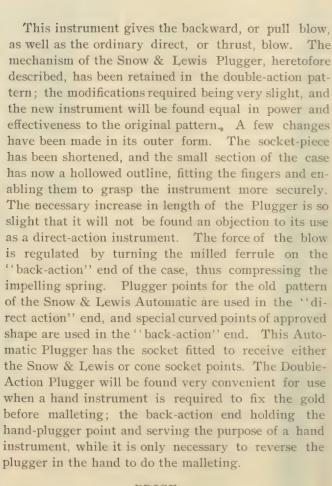


Sectional view of No. 1 Automatic Plugger.

The Snow & Lewis Automatic Plugger, No. 3.

Manufacture: only by the Buffalo Dental Mfg. Co., Buffalo, N. Y., U. S. A.

DOUBLE ACTION.



PRICE.

Snow & Lewis Double-Action Automatic Plugger No. 3, nickel or silver plated....... \$8.00



The Snow & Lewis Automatic Plugger, No. 4.

Manufactured only by The Buffalo Dental Mfg. Co., Buffalo, N. Y., U. S. A.

DIRECT ACTION.

The immediate success of the Snow & Lewis Double-Action Automatic Plugger suggested the adoption of the same mechanism for a Direct-Action Plugger. The outward form of the instrument has been changed to better accommodate the fingers. The size of the case remains the same, as thirty years' experience has demonstrated that a Plugger with a small case and a small hammer, actuated by a stiff spring, gives a short, jerky, undesirable blow; while one with a large case, containing a large hammer, propelled by an elastic spring, delivers a blow nearly resembling that of a handmallet.

The shank or tool-holder in the No. 4 extends through the entire length of the instrument, the upper or top end of the shank being supported by the milled cap. This not only gives a steadiness to the tool-holder, but ensures all the parts being in line, in any position the instrument may be placed. We believe the No. 4 Automatic Plugger is the smoothestworking and best Plugger ever made. Mechanically, it is the best Automatic Plugger ever placed on the market.

PRICE.

The Snow & Lewis Automatic Plugger, No. 5.

BACK ACTION.

This instrument gives the pull, or back-action blow, alone, the mechanism being the same as that of the No. 3, or Double-Action Automatic Plugger. It is placed on the market to meet the desires of those who find the double-end instrument objectionable, and prefer one adapted to one purpose only, but without the ''direct-action'' end.

PRICE.

The following claims are made for the Snow & Lewis Automatic Pluggers: They are as strong and substantial as can be made, and are not likely to get out of order. The expense of repairs is very small.

The durability is such, that the first made, over thirty years ago, are still in use. Its blow is the most effective of any instrument of its kind. In fact, the "blow of the Snow & Lewis Plugger" is often mentioned as the standard for comparison when other mallet devices are tested. The best that is ever said of them is, that the blow is equal to the "Snow & Lewis." No claim is made to superiority over it.



The Abbott Automatic Plugger.

Made by The S. S. White Dental Mfg. Co.

Patented in Great Britain and United States, August 16, 1887.

The Abbott Automatic Mallet is simple in construction and combines with the usual direct blow a back action movement, actuated by the same mechanism, so that with it gold can be packed into cavities in almost any position in the mouth.

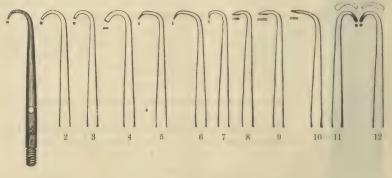
The working parts—pivotal latch, tripping mechanism, hammer and spring—are entirely free from the case, being carried upon a spindle which passes centrally through it. This plan of construction avoids friction. Each end of the spindle is socketed for the reception of the Plugger points, one end giving the direct push or thrust-blow, the other the pull or back-blow.

The Mallet combines simplicity of construction with easy, effective operation.

All the parts liable to wear are made of hardened steel, and the instrument throughout is constructed in the best manner.

For the direct blow the Cone-Socket or Snow & Lewis points, either of which will fit the socket, may be used. For the back-action blow, Dr. Abbott has devised the set of points shown herewith. It is believed they will cover all requirements.

Price, nickel-plated......\$8.00



PRICES.

Nos. 1 to 7 inclusive,	each	\$.40
Nos. 8 to 12 inclusive	((50
Sets of 12 Points		E 25

Snow's Spring Mallets.

Patented June 8, 1880. Made only by George B. Snow, Buffalo, N. Y.



The Mallets illustrated above differ only in the device for compressing the impelling spring. The Southwick Dr. Southwick's Pattern, price,\$6.00

Both patterns have the adjustable pattern is the shorter and lighter of the two, and balances better in the hand. stroke, 12th, 18th, or 16th inch.



The Double End and Student's Mallets have the 'sth inch movement only for the socket-piece.

ALL the above have the rubber finger-hold, hardened steel bearings, and improved socket, holding either Snow & Lewis or cone-socket points.



The Snow & Lewis Automatic Plugger, No. 6.

Manufactured only by The Buffalo Dental Mfg. Co., Buffalo, N. Y., U. S. A.

Patented March 28, 1893.

OBTUSE ANGLE.

The curved tool-holder is the invention of Dr. Frank J. Richards, and is the only practical right, or obtuse, angle device made. Notwithstanding the addition of the curved tool-holder, the instrument is as easily manipulated, and is as smooth in its working, as any of the other styles of the S. & L. Automatic Pluggers,

All the desirable features of the various patterns of the Snow & Lewis Automatic Pluggers have been combined in this one. The main shaft runs through the entire instrument, and is supported at both ends, as in the Nos. 3 and 4 Automatic Pluggers, which gives the mechanism a positive and certain action.

The tension knob has been altered in shape and improved in construction. A broad collar has been placed on the under side of the cap to prevent the knob from becoming loose by wear, which improvement, together with a few minor details and accurate workmanship, makes the entire instrument as mechanically perfect as possible.

The points used with the No. 6 Automatic Plugger are special, and are curved to correspond with the curve of the tool or point holder, thereby bringing all parts in line with the blow. These points are also of special taper, and are accurately fitted to the tool-holder. No points except those made by the Buffalo Dental Manufacturing Company will fit the No. 6 Automatic Plugger.

PRICE.

Points for Obtuse Angle Automatic Plugger No. 6.



PRICES.

Morocco Case for the Snow & Lewis Automatic Pluggers.

PRICES.

Morocco Case, with rack to hold 24 points	\$ 3.00
Morocco Case and 24 Plugger Points, with Snow & Lewis No. 1, 2 or 4 Auto	
matic Plugger, silver or nickel plated	
Morocco Case, set Back-Action Points, and one dozen assorted Direct Actio	
Points, with No. 3 Automatic Plugger	

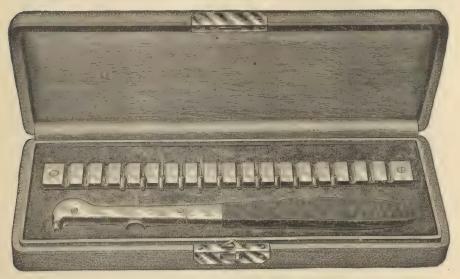
The Bosworth Automatic Mallets.



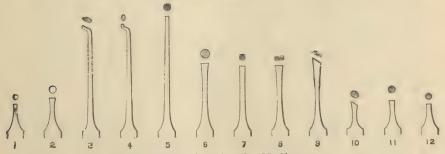
Direct-Action Mallet.



Angle Mallet.



Case for Angle Mallet and Points.



Points for Angle Mallet.

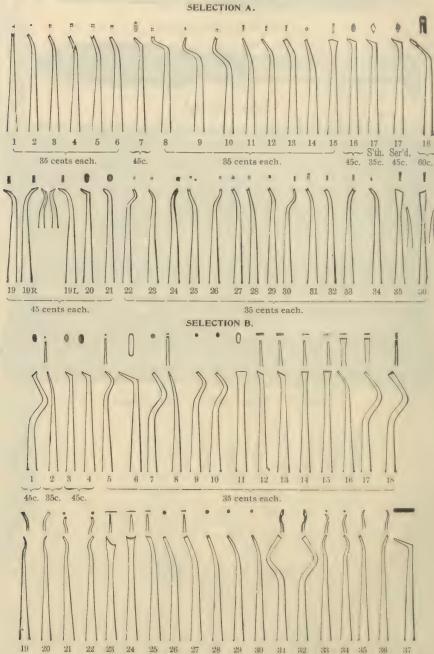
The Bosworth Direct-Action Mallet is supplementary to the well-known Angle Mallet shown. Both Mallets are small and compact.

PK	IC.	ES.

Direct-Action	Mallet		 7.00
	only with Po	111tS	 13.00
66 66	separately		 10,00
Angle Points	separately (p	er set)	 3.00
Case o	nlv		 3.00

Plugger-Points for Automatic and Engine Mallets.

These Plugger-Points may be used in any of the Engine or Automatic Mallets. In ordering, please state which Mallet they are for. Made by The S. S. White Dental Mfg. Co.



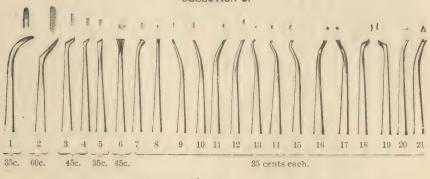
35 cents each.

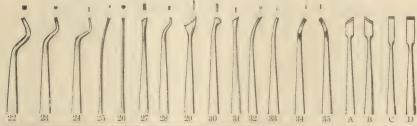
60c.

Plugger-Points for Engine Mallets.—Continued.

Made by The S. S. White Dental Mfg. Co.

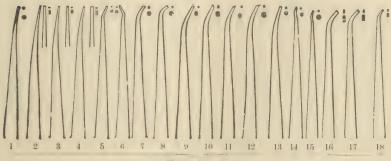
SELECTION C.



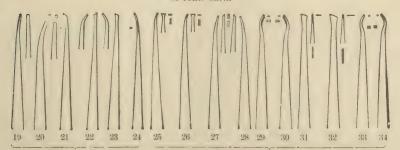


35 cents each.

SELECTION D.



35 cents each.

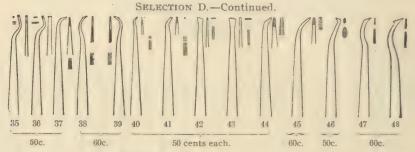


35 cents each.

50 cents each.

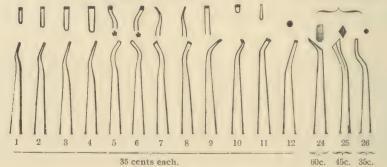
Plugger-Points for Engine Mallets.—Continued.

Made by The S. S. White Dental Mfg. Co.

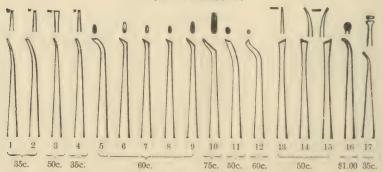


DR. WILLIAM C. HEAD'S.

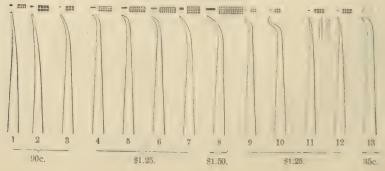
DR. E. T. DARBY'S.



DR. C. R. BUTLER'S.



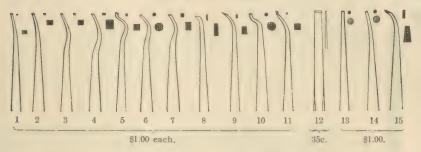
DR. R. W. VARNEY'S.



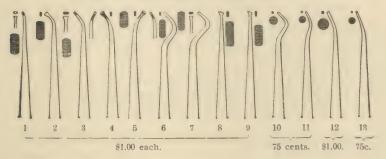
Plugger-Points for Engine Mallets.—Continued.

Made by, The S. S. White Dental Mfg, Co.

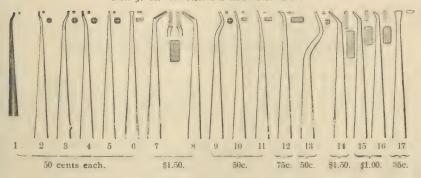
DR. M. H. WEBB'S.



DR. S. E. KNOWLES'S "CLUB-FOOT."

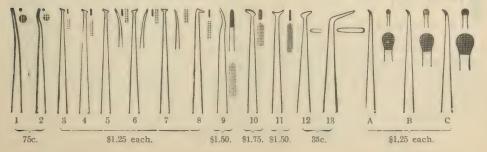


DR. J. A. WATLING'S REVISED SET.



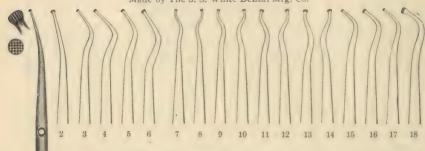
DR. M. H. CHAPPELL'S.

DR. T. L. NICKLIN'S.



New Set of Plugger Points.

Designed by Dr. E. A. Royce. Made by The s. S. White Dental Mfg. Co.



The distinguishing peculiarities of these Plugger Points—in which their novelty consists—are the "bell-shaped" heads, with oval faces, and the extension of the serrations down over the sides of the heads to the necks.

The advantage of this form is, in the language of the inventor, that "the force is delivered to the gold in a manner which causes it to spread on the surface instead of deep in the filling, as with a flat point, thus spreading the gold during condensation, making a better and easier adaptation to the walls of

the cavity. It also reduces to the minimum the liability of checking the enamel by excessive malleting, or of fracturing enamel-margins. Lateral force can be exerted without

changing the position of the hand.

"Nos. I to 14 inclusive are for hand or rapid malleting or for hand-pressure. With a rapid mallet gold can be literally wiped into the cavity, the gold working more evenly and condensing more readily than with any other shaped point. Nos. 15 to 18 are better adapted for hand-work, not only for condensing gold in places difficult of access, but they are particularly useful in kneading gold to place, as advised in directions for working Crystal Mat Gold."

The serrations are about of a medium fineness and their extensions along the sides are

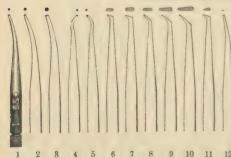
so constructed as to "clear" perfectly

In stock for Snow & Lewis or Abbott Automatic Mallets, and for Bonwill Mechanical Mallet No. 1.

		to 17each \$ o.	75
6.6	No. 18	3 I.	25
6.6	per set	t of 18 14.	00

Automatic and Engine Mallet Points.

BENNETT PLUGGERS-13/8 INCHES LONG.



The faces of these Plugger Points are slightly convex to insure perfect condensation and welding of the gold. The shanks are shorter than those of ordinary points, balancing the mallet in the hand more perfectly.

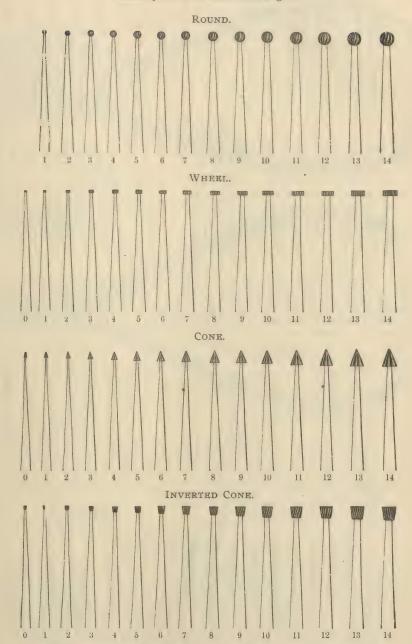
Nos. I to 5 are for starting and for filling labial and crown cavities. These are old forms, but serrated in one direction only to spread the gold slightly towards the walls. Nos. 6 and 7 are for packing gold against the cervical walls of medium and large cavities, and for building on corners or restoring crowns. Nos. 8, 9 and 10 are specially for use in the front teeth. Nos. 8 and 9 have two surfaces, the smaller chiefly for working with-

in the cavity, and the larger for completing the filling. No. 10 is also used for the latter purpose where a larger point is required. No. 11 is for medium and large approximal cavities in bicuspids and molars, the narrow end being intended for use in the grooves on the buccal and palatal walls. No. 12 is a special point for condensing around the walls and margins. It is flat, but has no corners or sharp edges. Though primarily intended for the automatic mallet, these Points are equally well adapted for the hand mallet.

Nos	. I, 2, 3, 4, 5, I2	each,	\$.35
6.6	6, 7		. 75
	8, II		I.00
6.6	9, 10	9.6	1.25
Per	set of 12		8.00

Hand Burs.

Made by The S. S. White Dental Mfg. Co.

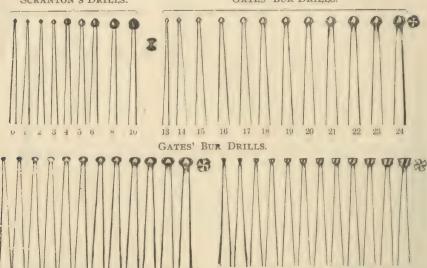


Price, Octagon Steel Handles, nickel-plated......per doz., \$2.50.

Not kept in stock for Cone-Socket Handles.

Hand Drills.

Made by The S. S. White Dental Mfg. Co.
SCRANTON'S DRILLS.
GATES' BUR DRILLS.



The Scranton and Gates Drills are self-cleansing in operation. The Gates Bur Drills, Nos. 13 to 24, are useful for opening cavities or pulp-canals, and accomplish it with a smooth and rapid cut, unequalled by any other instrument. Nos. 25 to 36 make excellent excavating burs, and will penetrate solid material with great ease and efficiency. Nos. 37 to 48 will be found invaluable where a smoothly finished undercut is desired, or the bottom of a cavity so shaped as to offer a more desirable surface than that formed by the round bur.

57 58 59 40 41 42 43 44 45 46 47

29 30 31

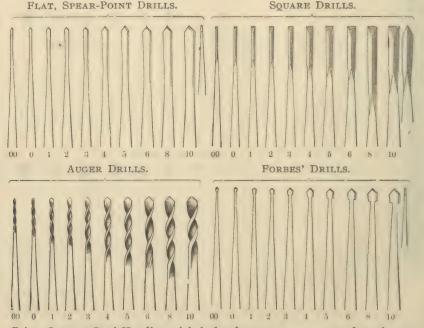
25 26 27

28

32 33 34

35

36

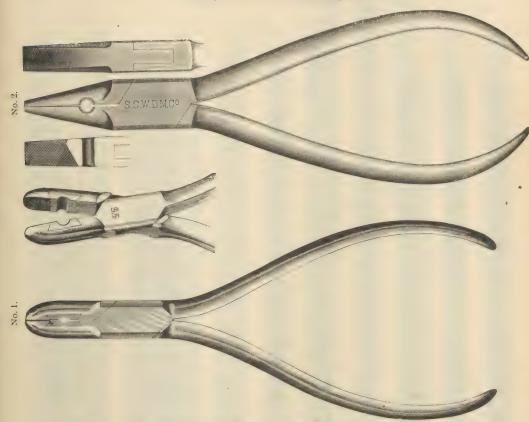


Price, Octagon Steel Handles, nickel-plated.....per doz., \$2.50

.15

Pliers for Inserting and Removing Cone-Socket Points.

Made by The S. S. White Dental Mfg. Co.



In order to set the points firmly in the handles it will be necessary to use more force than can be given with the fingers.

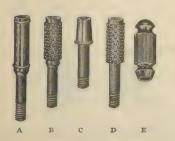
These Pliers are especially adapted for the purpose.

In No. 1 both jaws are inserted (dove-tailed) copper plates which prevent the marring of the instruments and give firmer grasp than can be with the No. 2 Pliers.

A flat-nosed Plier with depressions ground in the jaws. Polished and nickel-plated.

Price, No. 1.....per pair, \$1.75 Price, No. 2, Improved





A and B screw into the cone-socket handles and take Snow & Lewis automatic mallet points. C and D screw into Snow & Lewis sockets and take cone-socket points.

E is designed for use between the thumb and finger for rotating cone-socket instruments.

 "A" Hardened Steel
 each, \$0.30

 "B" Knurled
 " .15

 "C" Hardened
 " .30

 "D" Knurled . 15 "E"

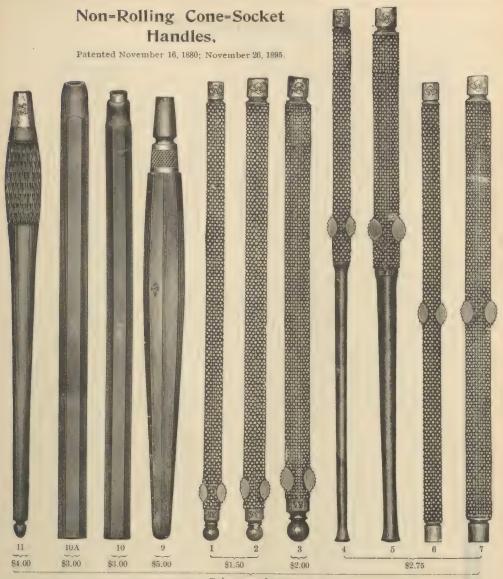
Socket=Handles for Cone=Socket Points.

Patented Nov. 16, 1880.





NOTE.—Order Handles by Number. Order Style of Knurl by Letter.



Price per dozen.

The little stops on the sides of these handles will prevent the handles rolling about or off the bracket-table as the result of a sudden jar, or should the table happen to be out of level. They also assist in giving a firmer grip of the handle, which is sometimes desirable. Made only in "A" Knurl.



Cone-Socket and Long (Fixed) Handle Instruments.

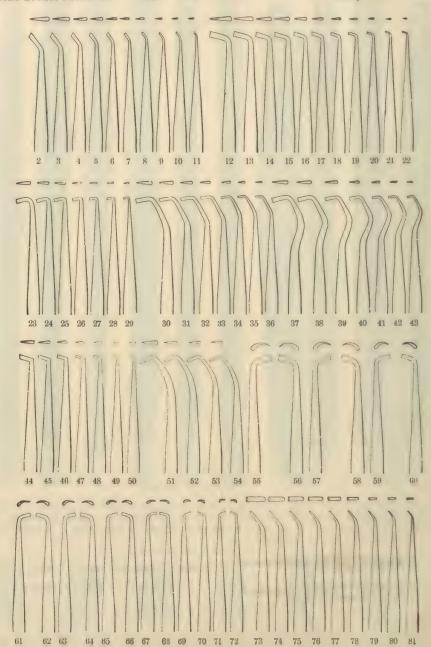
We have in stock everything shown in this department. Classified by numbers. Easy to get at.

Two styles of bit shanks have been found desirable; a light shaft, X, for small, delicate points; and a heavier one, Y, adapted to the points which in Long Handled Instruments require ¼-inch file-cut handles.

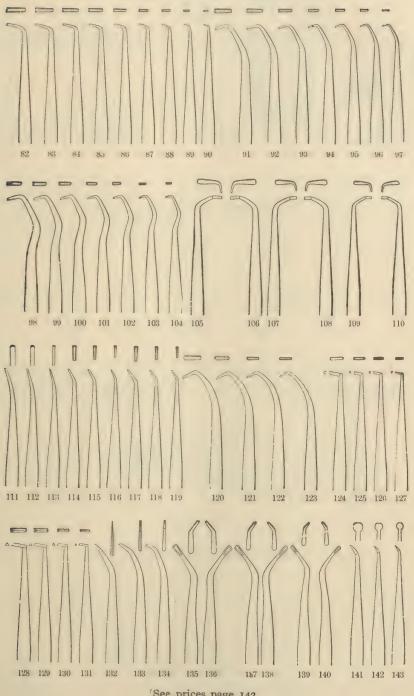
Excavators.

PRICES.

Octagon Handles, nickel-plated.....per dozen, \$2.50
Cone Socket Pointseach, .12

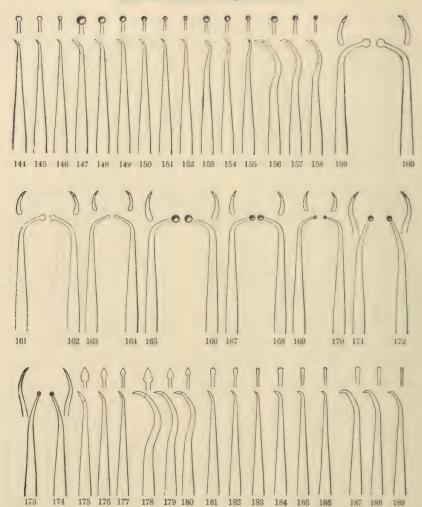


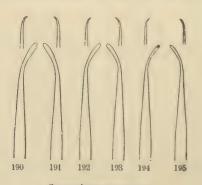
Excavators.—Continued.



See prices page 142.

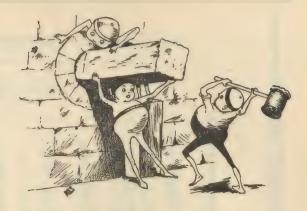
Excavators.—Continued.





See prices, page 142.

A... Square Post in a Round Hole



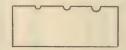
won't work. No use trying it. It has been tried before. No person has ever had any success at it.

No person has ever had any success trying to sharpen a spoon excavator on a flat surface either. It can't be done.

There is only one way to sharpen a spoon excavator. We make a

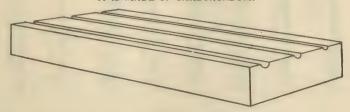
Grooved Hone

for that very purpose. The grooves are made to fit popular sizes of spoons.



Draw the instrument from end to end of the groove, just about twice. Dress off any rough edge on smooth side of same stone, and there you are. A new instrument. Just about a minute.

IT IS MADE OF CARBORUNDUM.



There isn't an office in the land where it oughtn't to be.

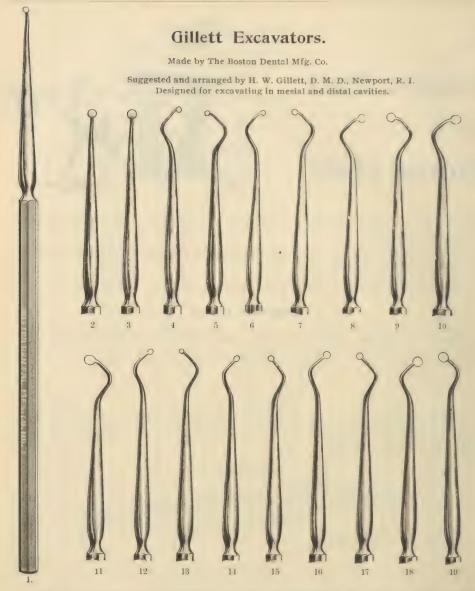
PRICES.

LEE S. SMITH & SON,

SOLE AGENTS.

PITTSBURG, PA.

The Carborundum Co., Manufacturers, Niagara Falls, N. Y.



Nos. 1-3 are almost a straight instrument with a slight bend and are useful in surface cavities, and are also found to be useful in finishing the gold fillings in fissure cavities.

Nos. 4-11 have a double offset, and are designed for deep crown, and distal cavity excavating.

Nos. 12-19 have a single offset, and are designed for surfaces presenting towards the operator, i.e., mesial cavities.

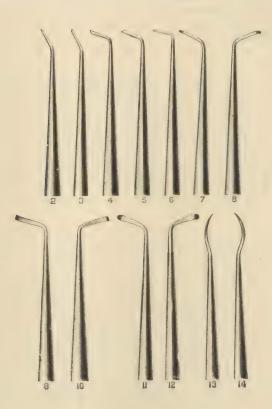
The blades are very thin; the inner surface being flat, the instrument can be easily honed.

The practical efficiency of this set of instruments will be found in the removal of soft decay, and for general excavating in the whole range of cavities.

Price,	each	0.25
6.6	per set, 19	4.50

Smith's Light Chisel Excavators.

Made by Boston Dental Mfg. Co.



For the patterns furnished for this set of Light Chisel Excavators, we are indebted to the late Dr. Smith, of Newport, R. I., and also to Dr. W. P. Church, of Providence, R. I. for the arrangement of the same.

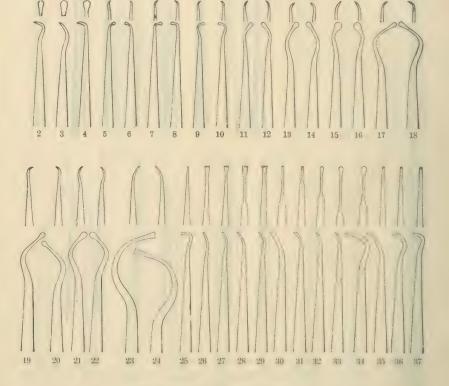
For the delicate chisel excavating, this set of instruments will be found the most useful, owing to their appropriate shapes and delicate construction.

For use in deep mesial and distal cavities in molars and bicuspids, and there mainly at the cervical margins and walls, but will be found very useful in many places from the centrals to the molars.

Price, each...... 25c.

The Darby-Perry Excavators.

The thirty-seven Excavators, herewith illustrated, in conjunction with the set of thirty-two Pluggers and eleven Scalers illustrated on other pages are the result of a conjoint comparison and selection by Drs. Edwin T. Darby and Safford G. Perry, and comprise what is popularly known as the "Darby-Perry Set of Instruments."



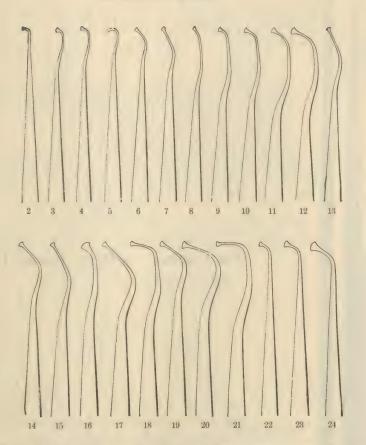
PRICES OF EXCAVATORS.

	Plain Octagon Handles, Nickel- Plated.	Cone-Socket Points.
Per Set of 37	\$9.50	\$6.00
SEPARATELY.		
Nos. I to 22	each . 25	. 15
23, 24	'' .30	. 20
" 25 to 27	'' .25	. 15
" 28_to 37	30	. 20

Battle-Ax Excavators.

Made by The S. S. White Dental Mfg, Co.

Devised by Dr. S. G. Perry.



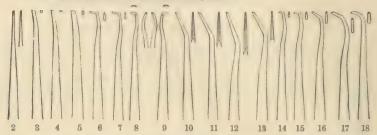
The special excellence of these Excavators is the rounded shape of the square cutting-edge. The edge thus "bites" only in one place, and where it bites it takes hold, and it thus cuts well in any part of the tooth, while the rounded shape fits the contour of the cavity nicely. The larger sizes are for opening into cavities, and cutting down crown surfaces; the smaller for work in the interior of cavities.

PRICES.

For prices of Cone-Socket Handles see pages 140 and 141.

Dr. W. C. Head's Approximal-Surface Instruments.

Made by The S. S. White Dental Mfg. Co.



Intended chiefly for use in preparing cavities between the upper front teeth, working from underneath, but also useful on bicuspids where compound cavities are to be formed for contour fillings.

Special attention is directed to their fine working qualities. The high temper given them preserves sharp, keen edges. They cut rapidly with comparatively light pressure.

Nos. 1 and 2 are retaining-point drills; Nos. 3, 4, 5, enamel gouges; Nos. 6, 7, hatchets; Nos. 8, 9, groove-cutters for palatal edge of cavities in incisors or cuspids; Nos. 10, 11, 12, 13, chisel-hoes; Nos. 14, 15, 16, 17, 18, groove-cutting hoes. 15, 16, 17, 18, groove-cutting hoes.

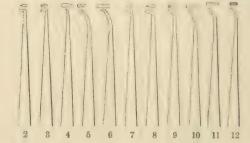
Made only on Octagon Steel Handles, nickel-plated.

PRICES.

Nos, I and 2..... each, \$0.30 3 to 18.....

Not kept in stock for Cone-Socket Handles.

The Palmer (or Best) Excavators.



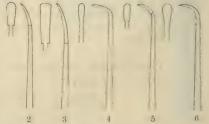
Made only on Octagon Steel Handles, nickel-plated. Price, each..

Not kept in stock for Cone-Socket Handles.

Butler's Rapid Excavators.

These Excavators are made of a very fine quality of steel, and tempered with particular regard to their use, which is the excavation of large, open cavi-ties where engine and other cutters cannot be conveniently employed.

Nos. 1, 2, and 3 cut from the operator; Nos. 4, 5, and 6 cut toward him. The forms are such as to readily suggest their



application after the cavity is opened up with the enamel chisel.

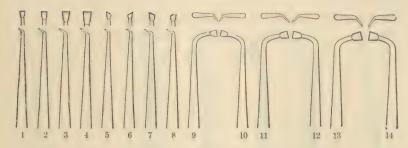
Made only on Octagon Steel Handles, nickel-plated. Price, each.....

Not kept in stock for Cone-Socket Handles.

Chisel Excavators.

Made by The S. S. White Dental Mfg. Co.

Devised by Dr. A. G. Bennett.



The angle, size, thickness, and edge of blade admit of the smoothest and most effective cutting in the smallest possible space without passing into the cavity or slipping off against the gums. With these instruments the cervical wall can be as smoothly cut and its margin as evenly beveled as the most accessible part of an incisor cavity.

Nos. I to 8 are intended for upper teeth; Nos. I to 4 for cutting the wall, and Nos. 5 to 8 for beveling the enamel margin; Nos. 9 to 14 are for lower bicuspids and molars. Nos. 3 and 4 can also be used as ordinary enamel chisels on the posterior teeth.

Made only for Cone-Socket Handles.

Price, each......15 cents.

Gum Retractor.

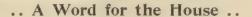
Suggestion of Dr. T. F. Chupein.

Designed to hold back the gum, or the rubber-dam, while filling those very troublesome cavities which extend under the gum on the labial surfaces of the anterior teeth.

The Retractor is to be held in the left hand of the operator, or by the assistant, and is so nicely shaped that its hold on the tooth-neck is close, to exclude moisture and secure against slipping.

Ebony Handles.

Price, each......75 cents.



Illustrations of steel goods are a good substitute when the instrument itself cannot be seen. Dentists ordering this class of goods from us are assuming no risks. We know all about the difficulty of selecting instruments from illustrations. If they don't suit—send them back. Try it again, or—might ask for several on approval. We have the stock. It is at your service.



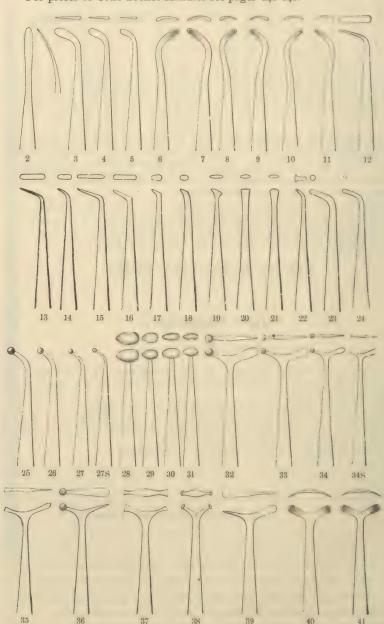
Burnishers.

Made by The S. S. White Dental Mfg. Co.

PRICES.

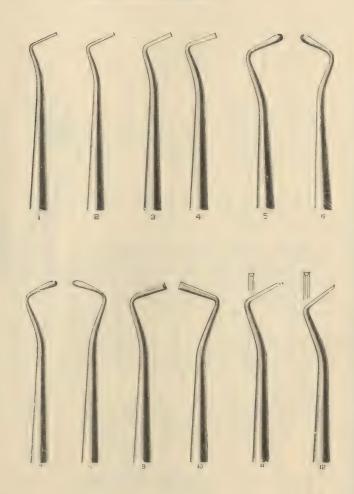
	31-4-in. File-cut Handles, nickel-plated		50	cents.
'' 32 ''	41	6.6	60	6.6
" I "	31—Cone-Socket Points	6.6	35	6.6
	41- " " "		45	6.6
0	The second of th			

For prices of Cone-Socket Handles see pages 140-141.



Shaw's Chisels.

Made by Boston Dental Mfg. Co.



Shaw's Chisels.

These instruments were designed by Dr. S. J. Shaw, of Boston, and will be found very desirable for deep and distal cavities.

Nos 1, 2, 3, 4, are light to heavy excavators.

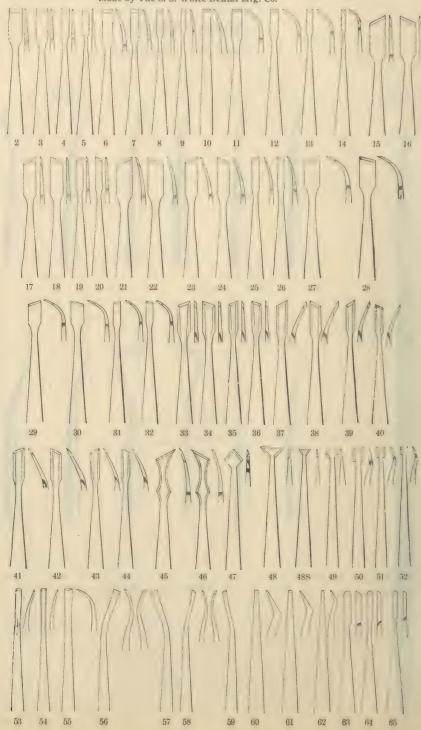
" 5, 6, 7, 8, right and left spoon.

" 9, 10, 11, 12, are honed on three sides.

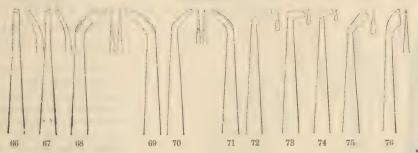
Price, extra blued finish or nickel-plated, each......50 cents.

Chisels.

Made by The S. S. White Dental Mfg. Co.



Chisels.





PRICES.

For prices of Cone-Socket Handles see pages 140-141.

Enamel Cleavers.

Patterns furnished by Dr. Calvin S. Case.

These are so shaped that they "can be partially rotated under the margin of the gum, presenting a sharp point toward portions of the enamel that will not easily cleave off,

with a view to fracturing it as the diamond cuts glass, breaking it up into small particles which can be quickly detached and the sides straightened and smoothed by the broad blade."

The peculiarities of shape are shown in the enlarged side cuts. The practicability of the instruments is readily seen. Tempered to take hold of the hardest enamel. Securely fixed on handles similar to our No. 10 Cone-Socket Handle. Right and Left.

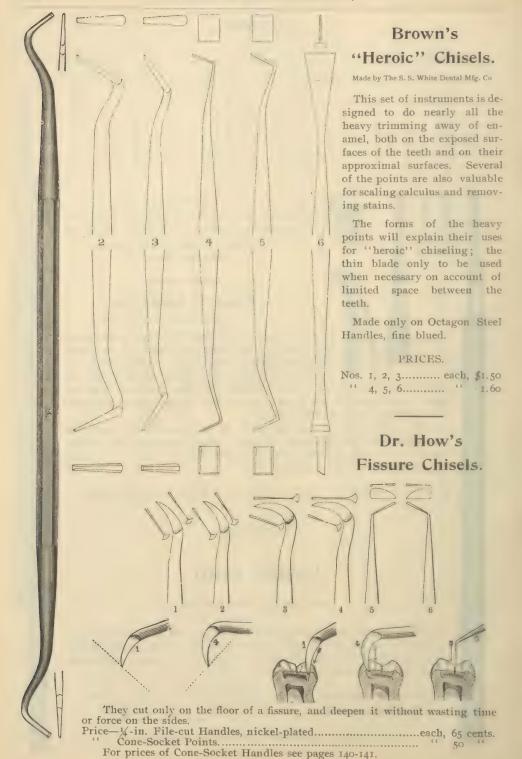
Price, per pair......\$1.20, or each 60 cents.

Ligature Cutter.

Suggested by Dr. Garrett Newkirk.

The inner side of the hook has a knife-edge, and the point is made blunt to avoid any risk of wounding the gum or puncturing the rubberdam, as is likely to occur when a lancet is used to remove a ligature. They are used with the pull-cut.

For prices of Cone-Socket Handles see pages 140-141.



How's Rotating Root-Reducer.

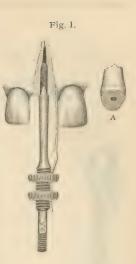
Made by The S. S. White Dental Mfg. Co.

The illustrations show method of operation.

The inward spring of the flat scraper shank causes the point to bear hard upon the root while following its outline closely. The root-end is reduced without change of contour, while its taper is reversed (A, Fig. 1), so that the greatest diameter is found at the portion acted on by the extreme end of the scraper point.

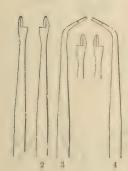
Price, each......\$2.75

Made for Cone-Socket Handles only.



Root=Trimmers or Reducers.

Suggested by Dr. R. Walter Starr.



The shoulder keeps the instrument on the root and limits the penetration of the spur, which scrapes the side of the root, Fig. 1, so that it may easily and quickly be given the shape of Fig. 2, or any similar form. They are made right and left: Nos. 1 and 2, for use on the superior roots anterior to the molars, and Nos. 3 and 4 for use on all the other natural roots.



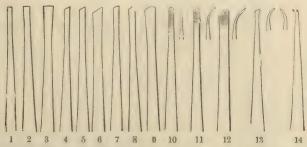
Price, each......45 cents.

Made for Cone-Socket Handles only.

For prices of Cone-Socket Handles see pages 140-141.

Hard Bits.

Except Nos. 13 and 14 they are square-edge.



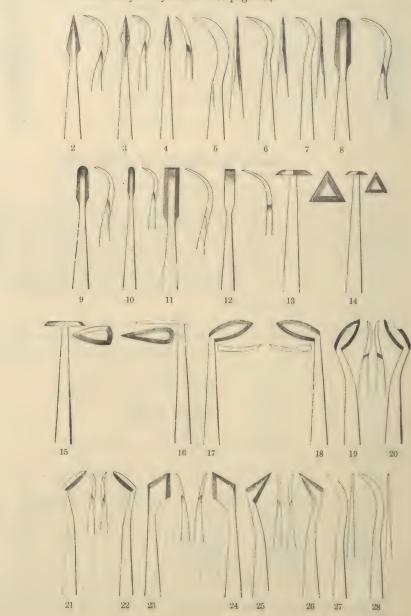
Made only for Cone-Socket Handles.....each 30 cents.

Scalers.

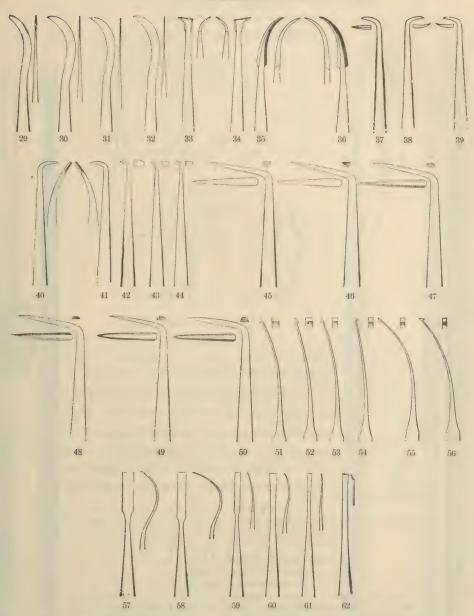
Made by The S. S. White Dental Mfg. Co.

PRICES.

For prices of Cone-Socket Handles see pages 140-141. For Darby-Perry Scalers see page 164.



Scalers.



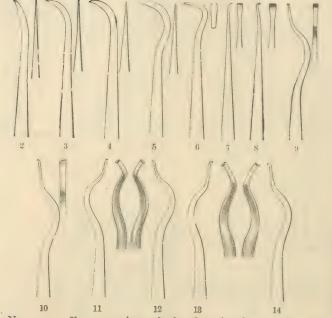
Steel Instruments.

There's no guess work here. We have these goods classified according to numbers. We have a wholesale stock for retail trade. This is one of our claims for your patronage.

Dr. F. Abbott's New Set of Scalers.

Made by The S. S. White Dental Mfg. Co.

For Removing Calcular Deposits.



Nos. 1, 2. For removing calcular deposits from between the lower front teeth anteriorly.

Nos. 3, 4, 5. For the same teeth posteriorly; also around the necks of all teeth, both upper and lower.

No. 6. For the extreme lingual portion of lower incisors and cuspids.

No. 7. For any tooth, under the gum, to which its shape is adaptable.

No. 8. For any of the upper front teeth, under the gum.

Nos. 9 and 10. For lingual portions of lower front teeth, under the gum.

Nos. 11, 12, 13, 14 are Rights and Lefts, for cleaning under the gums of lower back teeth.

PRICE.

Improved Root Driers.

Invented by Dr. George Evans. Patented October 2, 1888.

The oval mass of copper is heated in the flame of the lamp to a dull red and the heat passes rapidly along the silver probe, which is inserted as far up the canal as possible. The effect is to evaporate the moisture and gases and carbonize any organic material in the canal and tubuli.

PRICE.

Complete, Silver Probe, Copper Bulb and Blued Steel Handle. \$1.75 Also made for Cone-Socket Handles, Nos 8 or 11.

Price,	less handle	
6.6	Extra Copper Balls	
6.6	(Cilvor Points	

Moore's Scalers.

l t t i t t

The illustration shows one of the most valuable pair of Scalers ever made. The long points admit of their being used under the gum, and between the teeth. These instruments are also used extensively for trimming the edges in the preparation of cavities, and can be used either with push or pull cut.

PRICES.

Octagon, File-cut Handles, nickelplated, per pair.... \$1.00 Points for Socket Handles, per pair.... .80

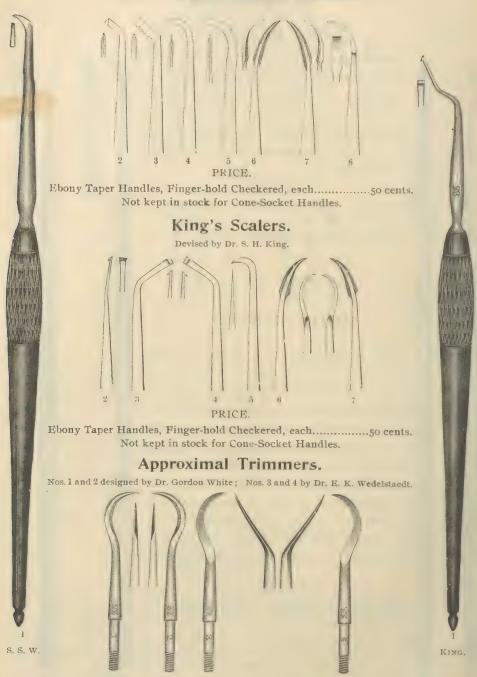
Harlan's Scalers.

The demand that we have for these Curved Scalers and the great number sold is sufficient evidence of their usefulness. They are intended to remove tartar which extends over one-half or two-thirds of the tooth under the gum, in so-called Rigg's disease. They are Rights and Lefts and can be carried as far as the apex of the roots; by holding the instrument firmly, and pressing the flat surface against the root, it can be carried to the margin of the alveola process, and with a rotary motion pass between the roots, upon the approximate surface.

PRICES.

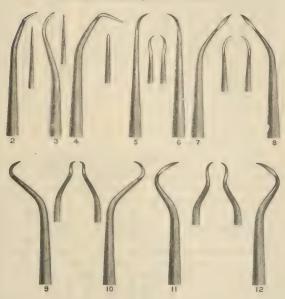
Octagon,	File-cut	Handles,	nickel-plated,	
per s	set			\$1.00
Points fo	r Socket	Handles,	each	-35

S. S. White's Small Scalers.



Allan's Scalers.

Patterns furnished by Dr. G. S. Allan.

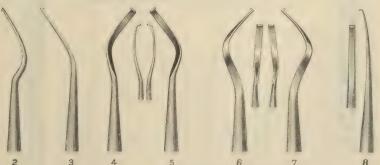


A critical inspection of the illustrations will show that these Scalers are delicate in shape, yet they can be used in many operations where the heavier patterns are unavailable, and their forms will suggest many uses to the operator.

PRICES.

The Cravens Scrapers.

From patterns furnished by Junius E. Cravens, D.D.S.



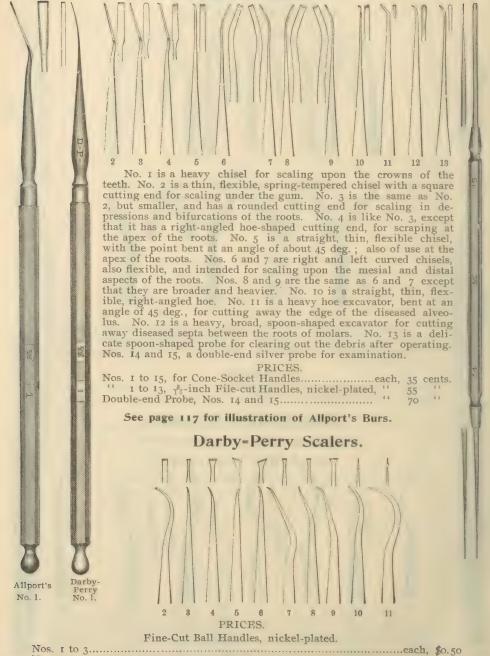
There has never been a proper set of Scrapers designed before for the express demands of pyorrhoea alveolaris, and as these are not in any sense scalers—they should not be used for general tartar removal. They should always be kept sharp, and in good order.

PRICES.

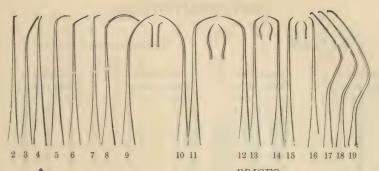
l Allan

Allport's Pyorrhoea Alveolaris Instruments.

Made by The S. S. White Dental Mfg. Co.



Explorers.

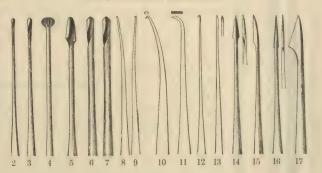


PRICES.

Octagon Handle, nickel-plated, per doz.....\$2.50

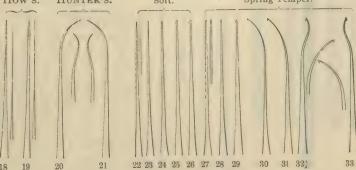
Nerve Instruments.

DR. CORYDON PALMER'S.



For prices see page 166.

DR. B. F. ARRINGTON'S EXTRACTORS. How's. HUNTER'S. Spring Temper. Soft.



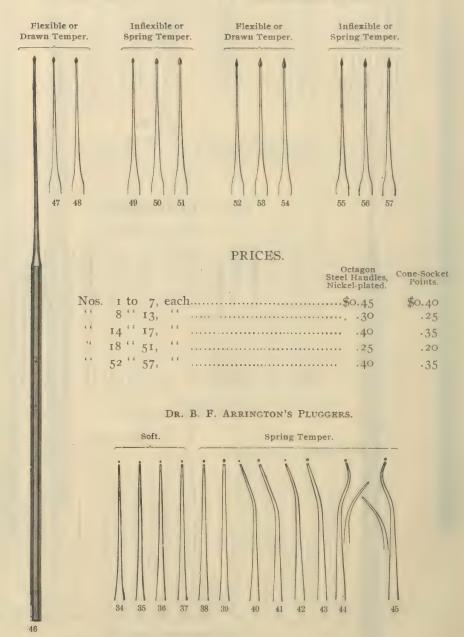
For prices see page 166.

Numbers 34 to 45 shown at bottom of next page.

Nerve Instruments.



GATES-GLIDDEN DRILLS.



For prices of Cone-Socket Handles see pages 140-141.

Probes.

Nerve Instruments.

Hopkins' Nerve-Canal Reamers.

Nerve-Canal Drills.

Extractors.

Hook.

Barb.

Hopkins' Nerve=Canal Reamers.

Devised for enlargement of nerve canal prior to permanent filling. These Instruments should be used progressively. The peculiar shapes of the short-cutting heads also permit angular access to the canals through lateral cavities in the crowns.

Price, each30 cents.

Nerve-Canal Drills.

These Drills may be operated by the thumb and finger for enlarging canals difficult of access.

They will be found especially useful in cleaning the anterior roots of lower molars and bicuspids. Made in four sizes corresponding to those sold for the engine.

Price, each.....50 cents.

Nerve Extractors.

Hook and Barb.

Made of best quality steel, drawn temper; will follow the canal readily.

Octagon Handles, nickel-plated.

Price, per doz......\$2.50

Nerve Probes.

Three sizes, round handles, nickel-plated.

Price, per doz.....\$2.00, each 17 cents.

Not kept in stock for Cone-Socket Handles.

orrect Broach

Correct Nerve Broaches.

The Most Perfect and Only Uniform Broaches Ever Produced.

Made by H. D. Justi & Son.



Our aim always to excel in the manufacture of all products from our factories, prompts us to call attention to another addition to our list of improvements—our Correct Nerve Broaches, which we are confident will be accepted by the profession as superior to all others. We have for years supplied Broaches which were justly celebrated, but the Correct Broaches have entirely eclipsed them.

Their advantages over ordinary Broaches are explained in a few words. They are made of the finest and toughest quality of steel, the different sizes being equally proportioned, the barbs being uniformly inclined and graduated, whereby they can be inserted and withdrawn from the canal with the greatest ease and least perceptibility.

The breakage of ordinary Nerve Broaches in the canal is caused either through the uneven length of the barbs or an inferior quality of steel.

Another advantage of our Correct Broaches is the manner in which they are packed; they are put up in wooden boxes, provided with grooved blocks in which the Broaches fit snugly, protecting them from injury. The blocks can be readily removed from the boxes for the purpose of selecting the required Broach.

Nerve Broaches put up in Paper Packages are liable to rust through the penetration of the paste from the labels, and in opening them they invariably become mixed.

Price, 75 cents per package.

Incorrect Broach.

Barbed Nerve Extractors.

OUR OWN BRAND.

There is no better Extractor made than this one. It is the best Extractor we know anything about. Because it bears our name is not why it is best. Every Extractor in every package is carefully cut and properly tempered. We have been making and selling them long enough to have learned just what is required. We are not making any changes in process now. All through with that. Every Extractor uniform, every package the same.

Price, assorted, per dozen......75 cents.

Barbed Nerve Extractors.

S. S. White Dental Mfg. Co. Brand.

No. 1, containing one dozen assorted sizes—Soft and Half Soft.

No. 2, containing one dozen extra small—Soft and Half Soft.

The assorted packages contain small, extra small, medium and large. We will, on order, put them up as desired, either in size or temper.

Iridium Platinum Nerve-Broaches.

Made by The S. S. White Dental Mfg. Co.

Not corroded by iodine, acids or dampness. Can be cleansed by heating in the flame of a spirit lamp.

Put up in packages as follows:

No. I.	Quarter-dozen Barbed	0.75
	Half-dozen Barbed	
	Quarter-dozen Hooked	
	Half-dozen Hooked	

Repairs.

Competent men in this department. Men who know their business. Men who work quickly and work well. There are some things we never try to fix. Things that cannot be properly fixed outside the shop where they are built. We can get these back from that shop just a little quicker than any other firm, though. We are doing more repair work each successive month. We do honest work for honest prices and withal —in a hurry.

Prices for Repairing.

Burs.

Re-cutting Cavity Burs, Stone-cutper	dozen,	\$1.00
Re-cutting Plug-finishing Burs, File-cut	6.6	1.50
Re-cutting Plug-finishing Burs, Stone-cut	6.6	2.30

We examine the Burs sent for repair very closely under a glass, and all those not worth repairing are returned with those repaired.

Excavators.

Excavators Re-pointed.....per dozen, 75c. to \$1.00

Pluggers.

All instruments for repair receive the same care and attention as new work; therefore, if the steel of which the instruments were made is of good quality, we will guarantee good and satisfactory results

Ivory's Spiral Nerve Extractors.

Patented January 6, 1891.

Mr. Ivory has made a great improvement in these broaches over the first he put on the market, both in temper and toughness, besides having them as fine as the finest, with sufficient pliability to enter the most tortuous canals; so that now there could be nothing better desired for the purpose of removing from the nerve canals their vessels and contents.

He manufactures them out of Platina and Iridium as well as Steel. Those of the former have all the toughness and pliability of the steel, besides having the various "known" advantages of these metals, not rusting or corroding with the different chemicals, iodine, etc., sometimes used in treatment of the various ailments to which teeth are subject.

Method of Using.

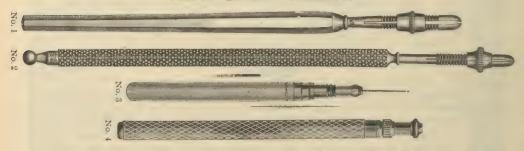
As soon as the point of the Extractor enters the canal chamber, twist it to the right as you would a corkscrew and keep on turning in the same direction until by the delicate touch or feeling you have a firm hold of the vessels; then 'draw away. Almost invariably it will be found that you extract them bodily, without tearing or severing the vessels, as has been so often done by barbed broaches. In medicating canals, wind a shred of cotton on the point of the instrument and you can carry medicine right to the apex of the root.

He gives only one testimonial out of a great number he has received:

Send me one dozen Spiral Nerve Broaches, medium and small sizes; I don't want the large ones. They are the best nerve broaches out, after one has tried them. You remember I did not think so at first, don't you?

M. L. McKellops, D. D. S.

Nerve-Broach Holders.



There isn't anything in dentistry more trying than a poor Broach Holder. It is the poorest sort of economy to buy them. The best of them are not expensive. There's satisfaction in every line of the good ones.

PRICES.

No.	I,	Ivory	each,	\$1.00
No.	2.	Steel		.75
No.	3,	Bone	4	.10
No.	4.	Metal		. IO

Gold Pointed Probe.



Fine Wood Handle, Hexagon Ferrule, to elevate point and prevent rolling on the table.

14-K Gold Point. Useful for introducing dressings into root canals. Not affected by iodine, etc.

Price, Gold Pointed Probe. 35 cents.

Dr. Donaldson's Spring=Tempered Nerve-Bristles.

Patented April 2, 1878.

The toughness of these instruments is remarkable. They are so tempered that they can be bent in any desired direction and will readily follow a small and crooked canal to the apex without danger of breaking off. Two forms: With sharp hooks, for removing the pulp; and straight, with the ends slightly roughened, for carrying a shred of cotton in cleansing out the canal or treating alveolar abscess. Sold with polished vulcanite handles, and without handles, for use in the broachholder. In ordering, specify which are wanted; otherwise we send those with handles.

Put up as follows:

No.	I, In	boxes containing four ho	oks and two rough-
		with handles	

No. 2, In boxes containing half-dozen, all hooks, with handles.....

No. 3, In packages containing four hooks and two roughened, without handles.....

No. 4, In packages containing half-doz., all hooks, without handles.....

per box, \$1.25 each .25

per pkg., \$0.75 each .15

Dr. Donaldson's Pulp-Canal Cleansers.

Patented July 14, 1885.

The barbs, which are cut of just sufficient depth to accomplish their work, are arranged spirally around the shaft, in effect forming a screw. With ordinary careful usage these Cleansers will remove the pulp-substance perfectly, without liability to be broken or to become fastened in the canal. If at any time the instrument does not withdraw readily from the root, a turn or two to the left (unscrewing) will at once release it.

Made of toughened steel piano-wire, with polished rubber handles; also without handles, to be used in Broach-Holder. The long-handled are always supplied when the order fails to specify the kind wanted. Put up as follows:

No. 1, In boxes containing half-dozen, assorted sizes, with long

No. 2 In boxes containing half-dozen all fine, with long handles
No. 3, In boxes containing half-dozen assorted sizes, with short
handles.....

No. 4, In packages containing half-dozen assorted sizes, without handles....

No. 5, In packages containing half-dozen all fine, without handles.....

No. 6, In packages containing half-dozen adapted for use in Adjustable Holder.....

per box, \$1.75 each, .30

per pkg., \$1.25 each .25

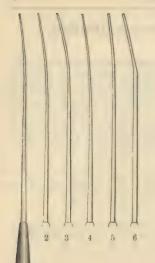
Nerve Paste for Devitalizing.

Put up in 1/8 oz. glass-stoppered bottles, price per bottle.....50 cents.

Devitalizing Nerve Fiber.

A preparation of Arsenic, Creosote, Tannin and Opium. Put up in screw cap bottle ready for use.

Price per bottle......75 cents.



Nerve Instruments.

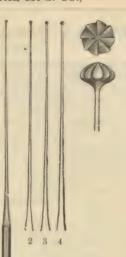
Flexible Spring Canal-Pluggers.

Suggestion of Dr. R. B. Donaldson,

These Nerve Canal-Pluggers have spring enough to stiffen them for effective use, and are still flexible enough to be bent for individual cases.

PRICE.

Flexible Spring Canal-Pluggers, each......30 cents.



Dr. Littleton's Root=Canal Drills.

The blades cut rapidly, and have a clearance which carries all the cuttings to the rear for removal with the Drill.

PRICE.

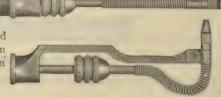
Donaldson's Adjustable Holder for Pulp=Canal Cleansers.

Made by The S. S. White Dental Mfg. Co.



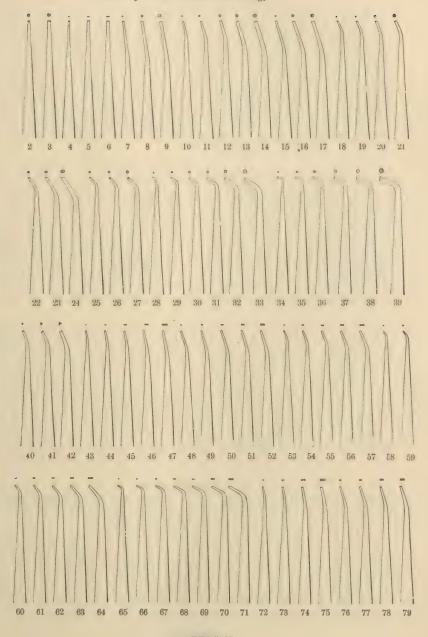
Operated by the thumb and finger on the milled whirl. The socket can be set at any angle within its range of 90 degrees by turning the screw on the end of the handle.





Pluggers.

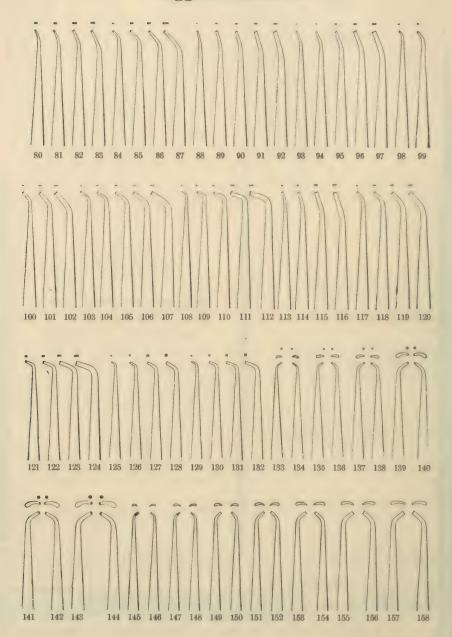
Made by The S. S. White Dental Mfg. Co.



PRICES.

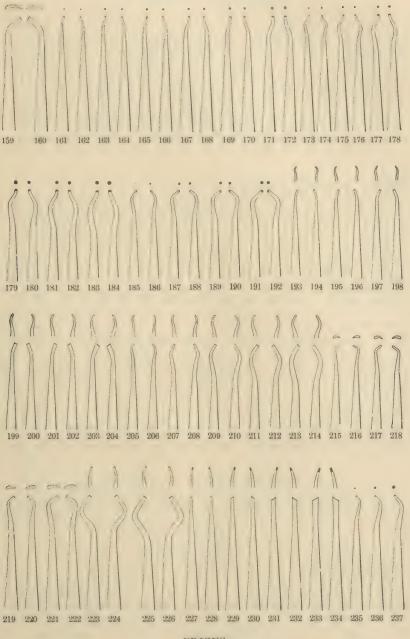
For prices of Cone-Socket Handles see pages 140-141.

Pluggers.—Continued.



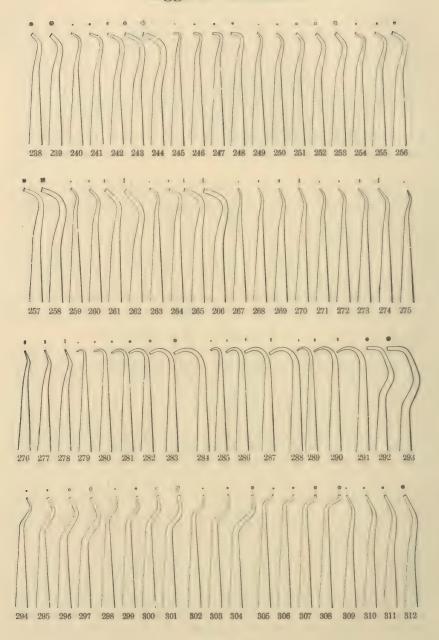
PRICES.

For prices of Cone-Socket Handles see pages 140-141.



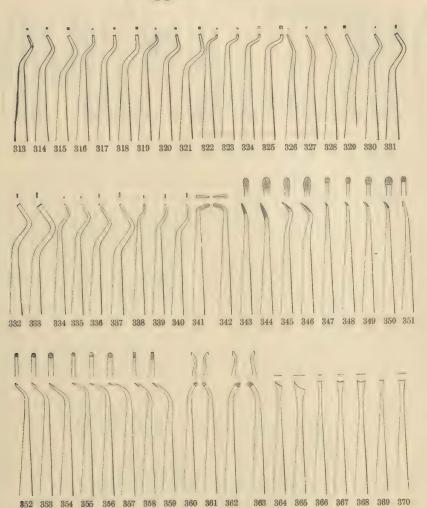
PRICES.

For prices of Cone-Socket Handles, see pages 140-141.



PRICES.

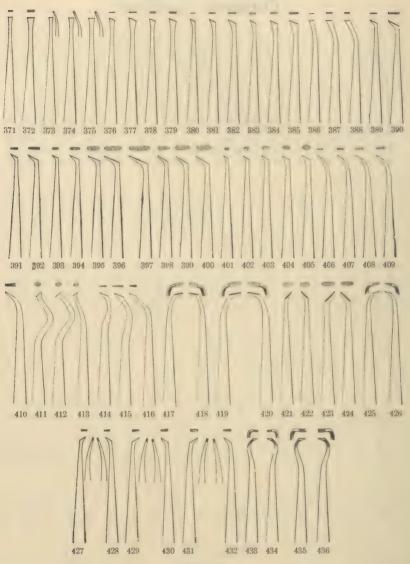
For prices of Cone-Socket Handles see pages 140-141.



PRICES.

		File	r-End e-Cut idles.	Cone-Socket Points.
Nos.	313 to 342	each	\$0.50	\$0.35
6.6	343 and 344		1.00	.85
6.6	345 and 346	6.6	-75	.60
6.6	347 to 350	6.6	1.00	.85
	35I	4 6	.50	-35
6.6	352 to 359	6.6	-75	.60
66	360 to 370	6 6	.50	-35

For prices of Cone-Socket Handles see pages 140-141.



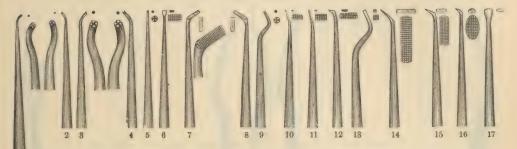
PR		

			I ICICIA.					
				Tape	r-End Hand	File-Cut les.		Socket ints.
Nos.	371	10	390	eac	h 50	cents	25 C	ents.
7400	2/1	10	590		11 00	CIICO.	33 0	
6.6	391	6.6	394		60	6.6	45	6.6
	395	6.6	400	4.6	75	6.6	60	6.6
	373		400		10			
	401	6 6	405		60	6.6	45	6.6
6.6	406	6.6	410	- 6.6	75	6.6	60	6.6
	400					6.6		6.6
	411	6.6	414	4 4	60		45	
6.6	415	6.6	426	6.6	75	6.6	60	6.6
	410		4.0		10			6.6
6.6	427	6.6	432		50	4.4	35	
6.6		6.6	10	6.6	den are	6.6	60	6.6
	433		436		75		00	

For prices of Cone-Socket Handles see pages 140-141.

Prof. J. A. Watling's Set of Pluggers.

Made by H. D. Justi & Son.



This set of Pluggers was originally designed by Prof. Watling for his own use, and also for instruction at college, but he has made several alterations and modifications since, of which the above representation is the latest and most correct. In the above cut the number of serrations contained in each instrument are shown magnified. The small cuts represent the exact size of each point.

Prof. Watling's description of their separate uses is as follows:

Nos. 1, 2, 3 and 4, commonly called "Cork Screw," right and left instruments, will be found useful in filling most of the approximal cavities. No. 5 may be used for filling starting points and small cavities, where access is direct. No. 6 is straight and may be used where access is direct, and great solidity of gold is desired. No. 7 and 8 are right and left foot instruments, for working on approximal and posterior bicuspid and molar cavities. No. 9 is small, round and bayonet-shaped, useful in posterior cavities. Nos. 10 and 11 are slightly curved, differing in size; thin at the point, designed to work around the border of cavities and filling fissures. No. 12 is a fine foot shape. No. 13 is a large bayonet-shaped instrument, useful in filling posterior cavities. Nos. 14 and 15 are different sized foot instruments. No. 16 is a small, oval-faced foot instrument. No. 17 is a burnisher.

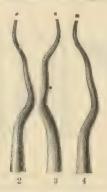
PRICES.

As shown	in cut;	blue	lacquered	hand	les		••••	per set,	\$16.00
6.6			6.6		separately	, Nos	. 1, 2, 3, 4, 5, 9, 1	7 each	-75
6.4							6, 10, 11, 12, 1		.90
" "	4.4	6 6	6.6	6.6	6.6	6.6	7, 8, 14, 15, 16	6.6	1.50
6.6	6.6	nicl	kel-plated					per set,	16.75
	Nic	kel-pl	ated, sepa	rately	, add 12 c	ents t	o above price	es.	
Octagon 1	Caper E	nd (Al	bott's sty	le), b	lue lacque	red h	andles		12.00
	ii i	6		ni	ckel-plated	i			14.00
Separately	7, I, 2,	3, 4, 5	, 9, 17					each,	.50
6.6	6, 10,	11, 12	2, 13,					66	.65
6.6	7, 8, 1	4, 15,	16						1.25
	Nickel-	-plated	l, separate	ely, ac	ld 12 cents	to ea	ach of above	prices.	
Price of I		_	_						2.00

Watling's Plugger Points.

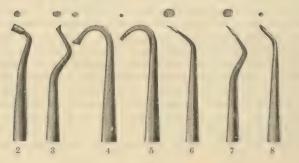
Price	e, per set		0.00
6.6	separately-Nos.	I, 2, 3, 4, 5, 9, 17, each	.40
6.6	66 66	6, IO, II, I2, I3,	.60
		7, 8, 14, 15, 16	.90

Mitchell's Pluggers.



Mallet Handles, as illustrated, nickel-plated, each.................\$1.25

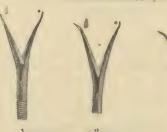
Plastic Gold Packers.

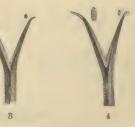


PRICES.

Bennett's Improved Plugger Points.

Patterns furnished by Dr. A. G. Bennett.

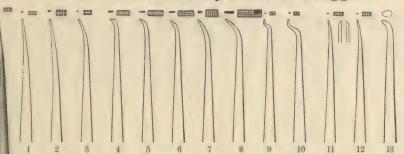




// ** 7 4	00
" Nos. 1 and 2, each	90

" 3 and 4, " I 20

Dr. R. W. Varney's Set of Pluggers.

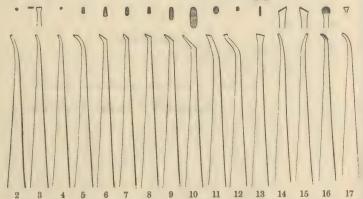


Copied from the original set which Dr. Varney himself used.

The full-length cut shows the general style. Made of the finest steel, with extreme care in forming and serrating. Tempered all over. Octagon shaft, nickel-plated. Both ends crocus-polished. The cuts show the size and bends, but the serrations are too fine for illustration.

	Nicke	Handle I-plated er cut.	Cor	re-Socket Points.
Per set of 13	\$1	7.50		\$14.25
Nos. 1 to 3			each,	.90
" 4 to 7	. 66	1.50	6.6	1.25
8	. 66	1.75	6.6	1.50
" 9 to 12	. 66	1.50	6.6	1.25
'' 13	. 6.6	.60	6 6	.35
Morocco Case for complete set, with space f	for each	instr	ument,	\$3.00

C. R. Butler's Set of Pluggers.



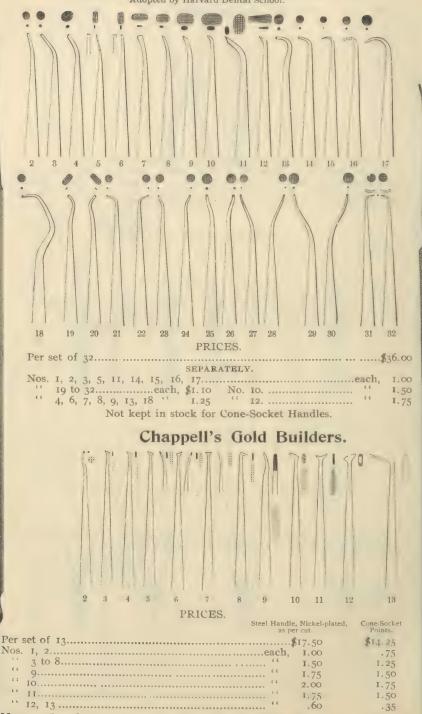
4 This set of Dr. Butler's Pluggers realizes his highest conception in practice, and fills the wants of a large class of careful operators.

	Nicl	kel-plate	d, Con	ie-Socket Points.
Per set of 17		\$13.25		\$9.00
Nos, I, 2	each,	, 60	each,	.35
3	6.6	.75	6.6	.50
4	6.6	.60	6.6	. 35
' 5 to 9	6.6	.85	6.6	.60
'' IO	6.6	1.00	6 6	-75
" II	6 6	.75	6.6	.50
`` I2	4.6	.85	6.6	.60
" 13 to 15	6 6	.75	6.6	.50
'' 16	4.6	1.25	6.6	1.00
" I7	4.6	,60	6.6	.35

Varney.

Butler.

Harvard Pluggers. Adopted by Harvard Dental School.

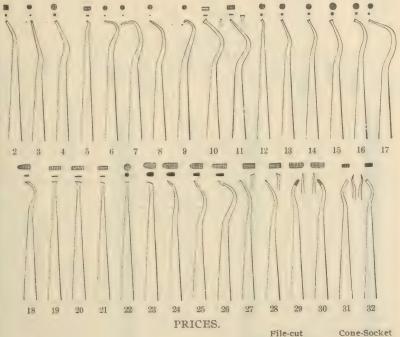


Morocco Case for complete set, with space for each instrument........... \$3.00
For prices of Cone-Socket Handles see pages 140-141.

The Darby-Perry Pluggers.

The thirty-two Pluggers herewith illustrated, together with set of eleven Scalers illustrated on page 164, and thirty-seven Excavators illustrated on page 148, comprise the set of instruments designated as the Darby-Perry Instruments. They are the only authentic Darby-Perry selection now offered for sale. A careful inspection of the illustrations will show the delicacy and nice adaptation of the points. They are of the same quality and finish as our standard goods, nickel-plated.

PLUGGERS.



	Taper Handles.	Points.
Per set of 32	\$23.00	\$15.00
SEPARATELY.		
Nos. I, 2, 3	each, \$0.60	\$0.35
4	75	.50
' 5 to 11	" .60	.35
" 12 to 18	. '' .75	.50
· · · 19		-35
., 20		.75
· · 2I, 22		.50
'' 23 to 26		.75
' 27 to 30	'' .75	.50
" 3I, 32	" .60	.35
3, 32		

Double-End Plugging Assistant.

Pattern furnished by Dr. H. Weston.

The peculiarity and merit of this Double-End Assistant lies in very ingenious curves of the ends, which on reversal will lean to opposite sides, and so hold a pellet without interfering with the Plugger or obstructing the sight. Made on round nickel-plated handle.

ROCHESTER DENTAL MFG. CO., Fine Pluggers for the Electric Mallet. DR. M. H. WEBB'S SET. \$1.25 60c \$1.25 DR. S. E. KNOWLES' "CLUB FOOT" SET. 16 17 18 19 20 21 \$1.00 \$1.25 \$1.00 DR. R. W. VARNEY'S SET. - and - 5751 - 010 30 31 32 34 36 33 39 \$1.15 \$1.50 \$1.75 \$1.50 DR. T. L. NICKLIN'S SET. DR. M. H. CHAPPELL'S "GOLD-BUILDERS."



42

\$1.50

No. 1.

\$1.25

Universal Approximal Instruments for Plastics.

\$1.50

51

\$1.75

\$2.00 \$1.75

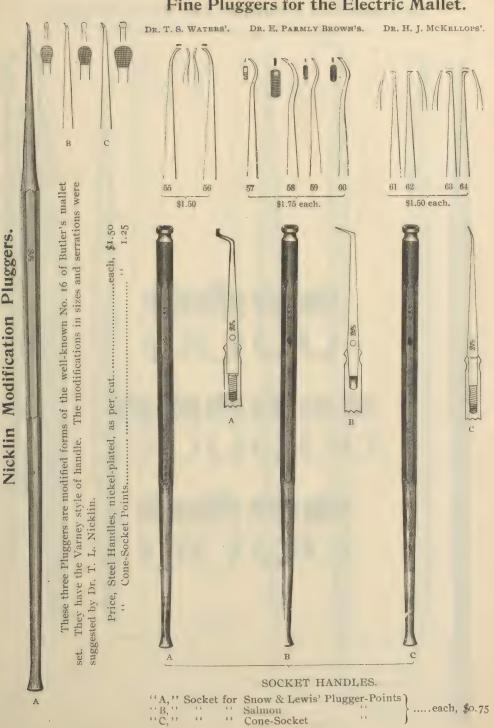
It is particularly effective in condensing or compressing to place pellets of amalgam or gutta-percha, and especially for contouring the surfaces of these materials—for the latter of which it is of course to be warmed. It will also be found useful in the adjustment of ligatures under the gingival margins of molars and bicuspids for retaining the rubber-dam, or as an ordinary burnisher for approximal gold fillings.

PRICES

\$1.00

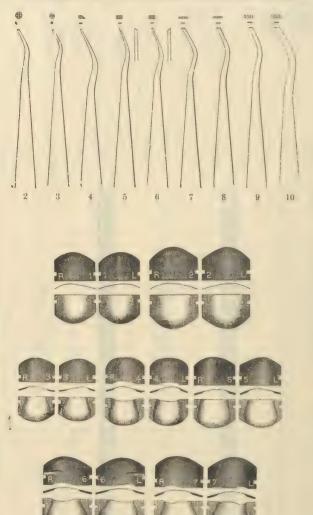
47

Fine Pluggers for the Electric Mallet.



Dr. Louis Jack's Matrices and Matrix Pluggers.

For description see "Dental Cosmos" for April, 1885, page 193.



PRICES.

Complete set, 10 Pluggers, 14 Matrices and 1 pair Pliers	00
SEPARATELY.	
Matricesper set of fourteen, 4.5 Separately, Nos. 1 and 2, Right or Lefteach, 1	50
" 3 to 7 "	10
Pliers, nickel-plated per pair. 2.2	75

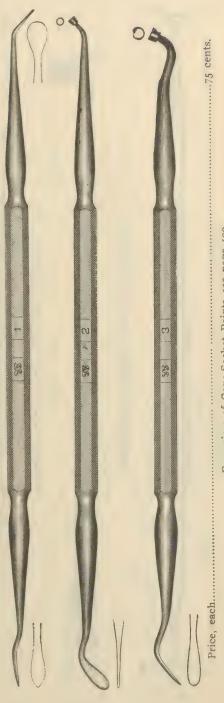
Webb's Right and Left Ebony Handle Pluggers.



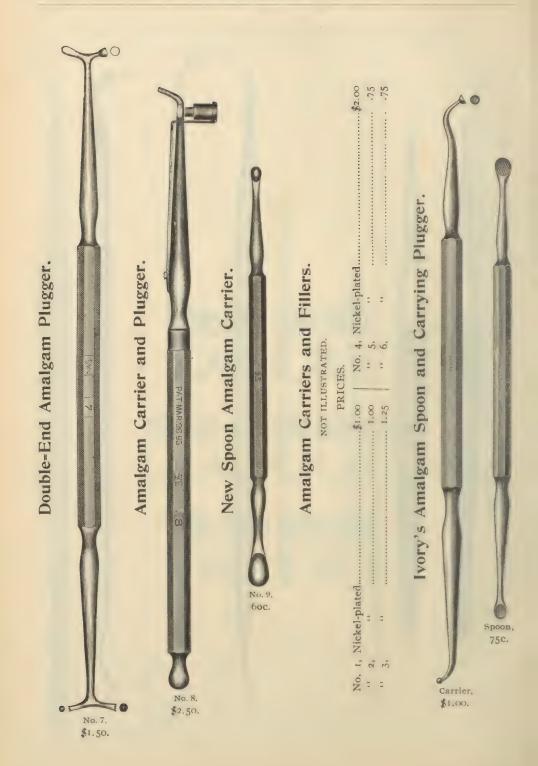
Made only on Ebony Taper Handles, Corkscrew Right and Left, illustrated in Webb's "Notes on Operative Dentistry," pp. 148. Price, each....

Not kept in stock for Cone-Socket Handles.

Woodson's Double-End Amalgam Instruments.



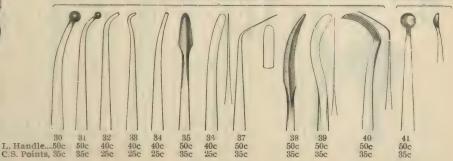
For prices of Cone-Socket Points, see page 190.



Amalgam, Gutta-Percha and Plastic Filling Instruments.

DR. B. F. ARRINGTON'S AMALGAM PLUGGERS AND BURNISHERS. 60c 60c 60c 60c 60c 35c 45c 45c 45c 45c 45c 35c 35c 35c WESTON'S AMALGAM INSTRUMENTS. 13 14 15 16 17 18 19 60c 60c 50c 50c 35c 45c 45c 45c 45c 35c DR. T. G. LEWIS' AMALGAM INSTRUMENTS. 21 22 23 24 25 26 27 29 Long Handle....60c C. S. Points.....45c 60c 60c 50c 50c 50c 35c 35c 45c 45c 35c 35c DR. J. FOSTER FLAGG'S AMALGAM AND ZINC DR. JAS. B. FILLING INSTRUMENTS. WILLMOTT'S

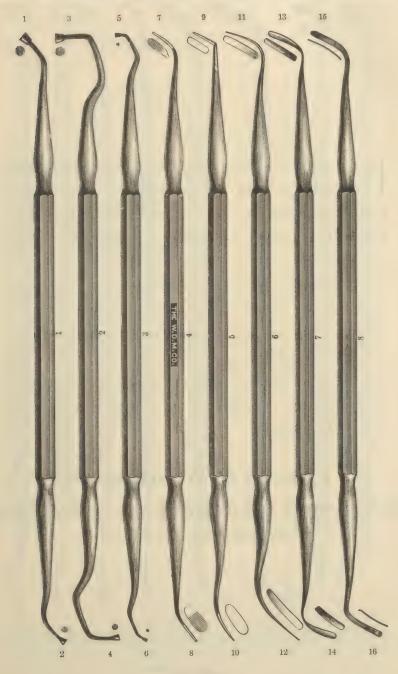




Dr. B. F. Arrington's Revised Set of Amalgam Instruments.



Watkins' Plastic Filling and Trimming Instruments.



PRICES.

Nickel-plated, as	illustrated	1, per set\$10	00
Points for Socket	Handles.	each	50

N no part of dentistry have the changes and improvements been so marked as in the line of Dental Instruments. From a few—and they of crude forms—the number and styles are now almost without limit.

The manufacturer, to be abreast of the times, must be on the alert to take hold of and introduce new forms, also meet the ideas of those in front rank.

The satisfaction given our customers, and increasing trade, are evidence that our efforts are appreciated in meeting the demands on us to supply a first-class line of instruments.

Lukens & Whittington,

Dental Instrument Makers and Dealers in Dental Supplies, No. 626 Race Street, Philadelphia, Pa.

LADMORE'S PLASTIC FILLING INSTRUMENTS, For introducing Amalgam, Gutta-Percha and Cement. THE WDM CO.

1 2 3 4 5 6 7 8

No. 1 is for filling distal cavities. Nos. 2 and 3 will be found useful in all parts of the mouth; the shapes speak for themselves. No. 4 is for filling fissures in any part of the mouth. Nos. 5 and 6 are for filling cavities between the teeth; they will also be found useful as spatulas and trimmers. No. 7, Plugger and Burnisher combined. No. 8, Spatula for mixing and smoothing fillings; it will also serve as a trimmer.

"Flexo" Files, Saws and Strips.

Patented December 1, 1885.

They can be adapted to the shape of the tooth without breaking, they cut rapidly and smoothly, without dragging, until worn out, and used wet clear themselves. They have been imitated, of course, as all good things are. FINISHING STRIPS.

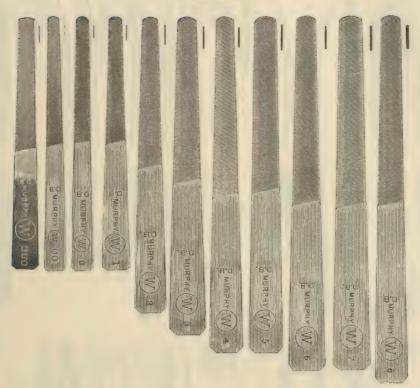
SEPARATING SAWS AND FILES. 000 Q SO ON ON NO. ON FLEXO FLEXO PLUG-FINISHING FILES. SAWS FOR SAW FRAMES. FILES FOR SAW FRAMES. PRICES. 1.00 2,00 1.00 Finishing Strips..... Saws for Saw-Frames25 Files for Saw-Frames..... 1.00 Dr. Taft's Plug-Finishing Files. A small, delicate File, with spring temper, designed for dressing down fillings in approximal cavities. Right and left, either push or pull-cut. Price, push-cut.....each, 13 cents. Per doz., \$1.50 1.50

1.50

pull-cut.....

Murphy's Files.

Separating.



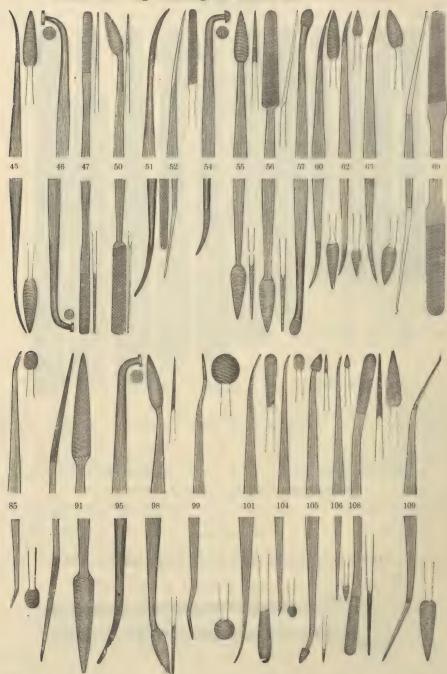
Nos. 000 to 4 and 6 have one safe side; Nos. 5, 7 and 8 are cut all over. Put up in packages containing one dozen of each number or assorted. We also have the No. 5 cut with one safe side.

Meriam's Right and Left Finishing Files.



Murphy's Files.

Double-End Plug-Finishing, for Lateral and Crown Cavities.



Price......each, 20 cents; per doz., \$2 40

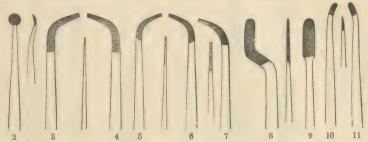
Plug Trimmers and Plug=Finishing Files. Made by The S. S. White Dental Mfg. Co.

DR. F. SEARLE'S PLUG TRIMMERS.

Cut on Round Side. R. & L. Cut on one side.

Cut all over.

R. & L. Cut on one side.



DR. SEARLE'S PLUG TRIMMERS. Cut all over.

Coarse. Cut on

one side.

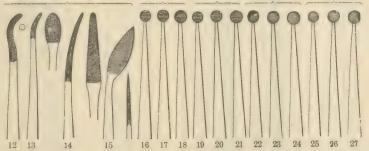
DR. D. D. SMITH'S APPROXIMAL TRIMMERS. Coarse.

Cut on

both sides.

Fine. Cut on one side.

Fine. Cut on both sides.



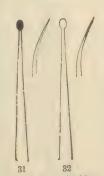
Right and Left Approximal Trimmers. Patented March 13, 1883.

Dr. H. Weston's Two-faced Safe-sided File.

DR. M. L. RHEIN'S Approximal Trimmers,







No. 31 cut on inside. No. 32 on outside.

PRICES.

Octagon Handles, Nickel-plated.	Co	ne-Socket Points.			
Nos. I to 6e	ach,	\$0.40			
' 7 to 9	6.6	.50			
'' io and ii		.40			
'' 12 to 18	6.6	.50	h 6		.35
'' I9 to 24	s 6	.60			
'' 25 to 27	6.4	. 75			.60
'' 28 and 29	4.6				.35
No. 30	6.6	.75	6.6		.60
Nos. 31 and 32	6.6		6.6		.45
For prices of Cone-Socket	Hat	idles see	pages	140-141.	

Contour Plug-Finishing Files.

Three-sided and cut on all sides, These Double-end Right and Left Files, beveled on the smooth side, making sharp, thin edges, are very finely cut. No. 111. For dressing the gold at the cervical walls, operating either from the buccal or from the palatal or lingual side of the upper or lower jaw. No. 112. For dressing the gold on the perpendicular walls of the teeth. Nos 111 and 112 are very thin, and are cut fine and sharp to the edge, so as to file off the gold with light pressure. cents; per doz., \$3.00 CAZIER'S PATTERNS.-NOS, III AND20 cents; per doz. \$2.40 Price, each......20 cents; per doz., \$2.40 PARMLY BROWN'S PATTERN.-NO. 113. RIGHT AND LEFT. contouring approximal surfaces of bicuspids and molars. RIGHT AND LEFT. 3 DR. A. L. NORTHROP'S PATTERN.-No. 114. Price, each..... No. 110.-FOR DEEP MARGINAL FILLING. Price, each..... Ţ. Price, each. H. 0 Earnest's Files. Separating, No. 000......

Metal Polishing Strips.

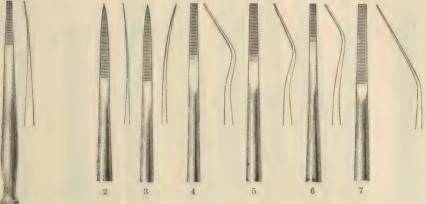
Plug-Finishing ...

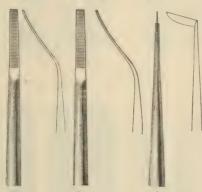
Do not lose their grip at the edges, but carry the polishing powder evenly over the entire working surface, and so finish the filling symmetrically.

Put up in boxes containing one dozen assorted—two of each of the six sizes.

Black's Proximal Trimmers.

Patterns Furnished by Dr. G. V. Black.





WILLMINGTON DENTAL M'F'G.CO

These instruments are designed especially for trimming proximate fillings to form, after having removed the bulk of heavy over-hangings with fine saws. They are all file-cut and stoned-sharp (instead of chisel-cut), and are made to cut on the pull. They are much better suited for cutting fine gold than chisel-cut files, especially in positions where the cutting must be done with short strokes. They are all so formed as to present polished surfaces to the soft tissues of the interproximate space, so that in their use laceration of the gum septum is reduced to the mini-

Nos. 1, 2 and 3 are designed for proximate fillings in the anterior teeth. No. t has a flat cutting surface, and is well suited to delicate work both in the proximate space and on the angles of large proximate fillings. Nos. 2 and 3 have rounded cutting surfaces for forming proximate surfaces.

Nos. 4 and 5 are designed for the finer trimming of distal fillings in the bicuspids and molars. They can be used from either the buccal or lingual side. The rounded cutting surface of No. 5 is especially useful for the careful forming of distal surfaces to give the correct contour of the proximate space. The flat-cutting surface of No. 4 is also suited to many positions in the proximate space and is especially useful in trimming the angles of large distal fillings, working lengthwise of the tooth.

No. 6 is a more delicate instrument for the same positions as the last, and is

especially valuable for delicate finishing.

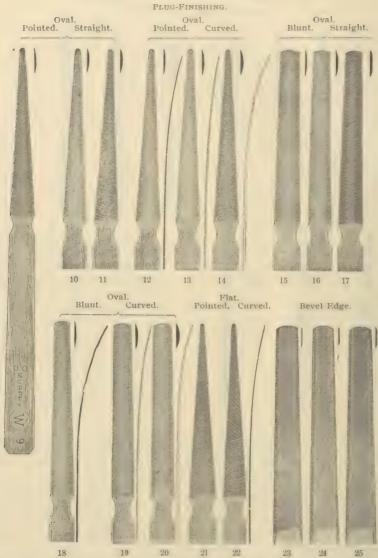
No. 7 is a heavier instrument designed for buccal and mesial surfaces where

there is plenty of room. Nos. 8 and 9 are for mesial surfaces and angles of bicuspids and molars. No. 8 has a rounded, and No. 9 a flat-cutting surface. The forms are such that any mesial surface of the back teeth can easily be reached from the buccal or lingual side and trimmed to the desired form.

No. 10 is a sharp-edged trimmer of the best form for general use in seeking out over-laps of margins. It is delicate, cuts with a pulling motion, and is designed to catch slight over-laps of the enamel margin by drawing the edge from the enamel on to the filling. Used in this way it detects slight over-laps that would otherwise escape observation.

Price, Octagon File-cut Handles, nickel-plated.....each, 65 cents.

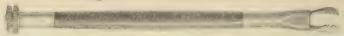
Murphy's Files.



These Files run thin, medium and thick, and fine, medium and coarse-cut.

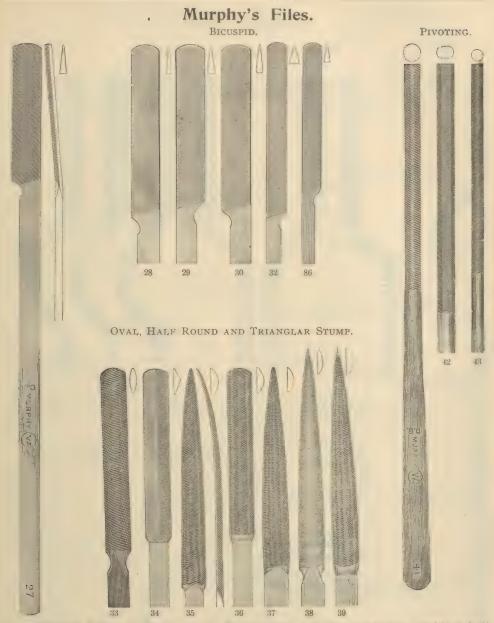
Price.....each 15 cents; per doz., \$1.80

Cogswell's File Carrier.



Grasps the file by its edges, and at any angle. Thus there is no possibility that the file will slip. The milled nut at the end of the handle controls its movements. Small pieces of file broken in hand use may be employed to advantage in the carrier, and a considerable saving effected.

Price, Ebony	Handle\$2.50	
Nickel-plated	Steel Handles	



Bicuspid. Nos. 27, 28, 29, 30, 32, 86, are rights and lefts, cut inside, outside and all over. No. 27 is bent; No. 28 is thin and fine-cut; No. 29, medium and medium-cut; No. 30, thick and coarse-cut; No. 32, extra thick; No. 86, narrow and medium-cut.

Stump. No. 33, oval, one safe side and cut all over; No. 34, triangular, cut all over; No. 35, half oval, pointed, curved, cut all over; No. 36, half oval, blunt, cut all over; No. 37, half oval, thin, pointed, fine-cut all over; No. 38, half oval, pointed, medium-cut all over; No. 39, half oval, thick, coarse-cut all over.

Pivoting. No. 41, round, coarse-cut; No. 42, oval, medium-cut; No. 43, round, small fine-cut

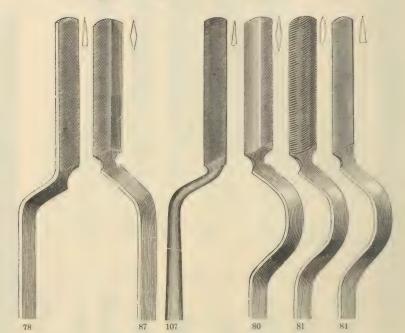
small, fine-cut.

PRICES.

Bicuspid, Stump, and Pivoting Fileseach, 17 cents; per dozen, \$2.00

Murphy's Files.

Single and Double Curve Molar.



These Files are made cut inside, outside, or all over. In ordering, state cut wanted; whether for the right or left side of the mouth; upper or lower jaw.

PRICES.

			2 222 0 241					
			ve, Knife Edge,		17	cts.; per	doz	\$2.00
6.6	87.	66	Feather Edge		20	66		2.40
'' 1	107.	6.6	Knife Edge	16	20	6.6		2.40
6 6	80.	Double Cur	ve, Feather Edg Oval Face	e ''	25	6 6		3.00
4 4	81.	6.6	Oval Face	6.6	25	6.6		3.00
4 4	84.		Knife Edge		20			2.40
'']	115.	Double Cur	ve, Knife Edge	. Li	ight	t and d	elicate in	n
	form	(pattern sup	oplied by Dr. J.	T. C:	azie	er), so th	at it can	n
	frequ	ently be use	ed in operations	for	wh	ich the	ordinar	y
			ar files are too h					
	10701	1						2 40

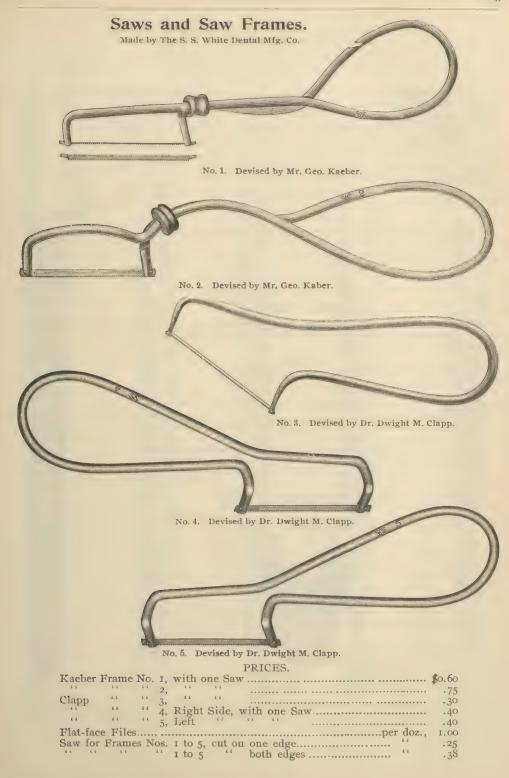
Ribbon Saws.

(Cut One-half Length.)



115

Price, 3/8 or 1/2 inch, each.....10 cents.



Adjustable Saw Frame.

Made by The S. S. White Dental Mfg. Co.

Devised by Dr. Cecil P. Wilson.

The distinguishing features of this appliance are its easy adjustment, its firm hold, and, above all, its applicability to different lengths of saws or files. The longer arm is fixed in the handle, and the shorter is movable, its adjustment being controlled by the milled thumb-nut at the end of the handle. The dotted lines show the range of movement. The ends of the arms are split to receive the saws or files which are securely fastened by a few turns of the thumb-nut, the studs being caught in little notches on the exterior surfaces of the arms. Altogether, it is the most complete Saw Frame before the profession.

The handle is of vulcanite with a slight swell in the middle; all the metal parts nickel-plated.

PRICES.

Adjustable Saw Frame, with one Saweach,	\$1.50
Saws, cut on one edgeper doz	.25
" both edges"	.38
Files, Flat Face	1.00
Flexo Saws—two widths	. 25

File-Carriers.

For carrying files or parts of files for finishing filings or separating teeth, enabling the operator to utilize what would otherwise go to waste—the best part of broken files.

PRICES.

Nos. I, 2, 3,
No. 5 16 50 16
No. 6. Dr. Abbott's. For upper and lower fillings. Price,
Ebony Handle \$2.50
No. 7. Dr. Abbott's. For separating. Price, Ebony Handle,
each, \$2.00
No. 8. Ebony-Handle Carrier. For separating molars, "\$2.50
No. 9. Dr. J. C. Connor's pattern. Price, Ebony Handle,
each, 75 cents.

Dental Apron or Bib.



Patented April 20, 1875, by R. Horton, D. D. S.

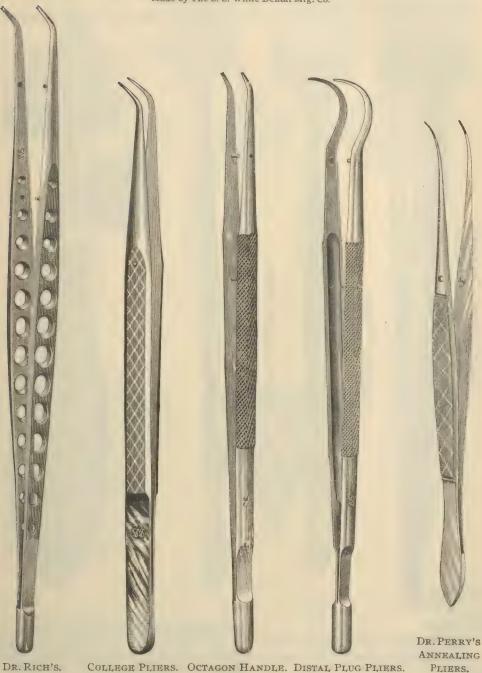
In tedious operations where there is a copious flow of saliva, this bib becomes a necessity. It is secured in position by passing the tape over the head and tying. Made of black rubber cloth with wire frame,





Foil Carriers and Dressing Pliers.

Made by The S. S. White Dental Mfg. Co.



DR. RICH'S. Nickel-plated, \$2.50.

Nickle-plated, \$1.00.

Nickel-plated, \$1.75.

Nickel-plated, \$2.00.

For additional pliers see page 206.

ANNEALING PLIERS.

Nickel-plated, 70 cents.



Made by Buffalo Dental Mfg. Co.

Made by The S. S. White Dental Mfg. Co. Watling Pliers.

Price, Buffalo Foil Carriers, each, 90 cents. Price, nickel-plated, per pair, . \$1.25.

Dr. How's Pellet Pliers.

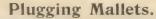
Price, nickel-plated,

Dr. C. R. Jennings' Metal Case Mallet.



Length, 7 inches. Faces covered with Leather. Made very hard. Nickel-plated. Hard Hickory Handle (stained).

Price.....\$2.00.





STEEL MALLET.
Design of Dr. A. B. Robbins.

Design of Dr. A. B. Robbins.



In addition to the above, we carry in stock the following Mallets, which space does not allow us to illustrate.



Mouth-Mirrors.

Cuts Full Size.





LARGE.

No.	I.	Plane (small))
6.6	2.	" (medium)	}
6.6	3.	'' (large)	J
6.6	4.	Magnifying, size No. 1	
6.6	5.	Magnifying, size No. 2	
	6.	Magnifying, size No. 3)

EBONY	HANDLE.	IVORY	HANDLE.
each,	\$ 0.75.	each,	\$1.25.
6.4	1.00.	6.6	1.50.

Screw-Frame Mirror.

An excellent example of a Mirror with easily removable glass.

D is the mirror-back into the rim of which the washer C is fitted; upon this washer rests the mirror B.

Over all the Screw-ring A is placed and screwed to the rim of the back, thus making a tight joint and protecting the Mirror from the effects of moisture. All the parts are carefully fitted and finished.

Made in one size only.

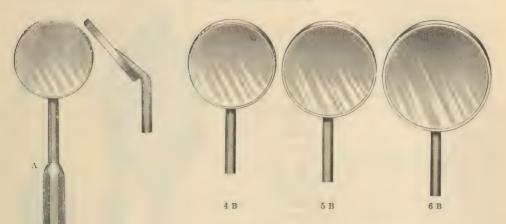


	made	YAX.	OHE	SILC	OH
1. LL.	Diam	eter	, 7/8	-incl	1.

Price.	Planeeach,	\$1.25
	Magnifying	1.50
	Extra Glasses only, Plane	•35
6.6	Magnifying	.60

Aluminum Handle Mouth-Mirrors.

Plane and Magnifying.



MADE IN FOUR SIZES, AS SHOWN.

The most rigid inspection proves these Glasses the finest we have ever had, clear, without imperfection in the glass or coating, and well secured in the frames. The handles are aluminum, and the lightness of the metal permits the use of a conveniently large handle without appreciably increasing the weight.

The handles are detachable by unscrewing at the point A.



Magnifying Toilet Mirror.

For travelers this will be found especially convenient, as it answers every purpose, while occupying little space.

Valuable in the office for showing patients completed operations.

Glass is magnifying. Handle ivory finish. Diameter of glass, 2 inches.

Price \$2.00

Miscellaneous Mouth Mirrors.

"Jumb	o, '' an	extra large size, Ebony Handle Plane Glass	\$2.00
6.6	4.6	" " Magnifying "	2.25
		andle, Plane Glass	1.00
6.6	6.6	" Magnifying	1.25
Double	e End, o	one Magnifying, the other Plane	2.00
		R. Butler's), Plane Glass	1.25
		" Magnifying Glass	1.50
		" Plane Glass	1.75
ŧŧ	66	" Magnifying Glass	2.00
		e, Flexible Stem, Plane Glass	1.25
6.6		" Magnifying Glass	1.50
		" Plane Glass	1.75
"	6.6	" Magnifying Glass	2.00
		e, Slip Stem, Plane Glass	1.75
6.6		" Magnifying Glass	2.00
Ivory	6.6	" Plane Glass	2.25
6.6	4.4	" Magnifying Glass	2 50

Our Mirrors.

They are the best we can buy. They are always the same. Good clear glasses. Never any scratches or any ''clouds''—just good, clear, clean cut glassses. The delight of careful operators.

Reglassing Mirrors.

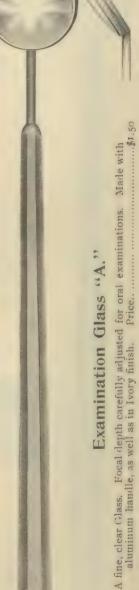
A handle and frame will outwear a lot of glasses. We put new glasses in old frames. We make the mirror just as good as new—JUST. When you send your old mirrors here you get them back in a hurry.

PRICES.

Re-glassing	Plane	each,	60	cents.
	Magnifying	6.6	75	4.4

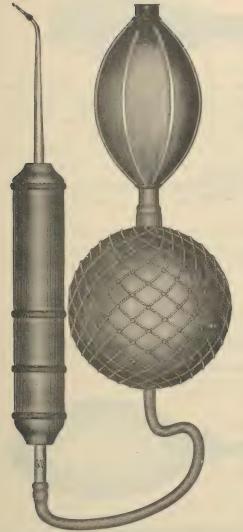
Magnifying Examination Glass,

With Aluminum Handle.



Continuous Current Hot-Air Syringe.

Made by The S. S. White Dental Mfg. Co.
Patented July 26, 1892.



This Syringe, like No. 30, has the important improvement of the carbon case in the heating chamber. It also has the removable shield covering the hot chamber when in use, and the delicate detachable point to be used in drying out the pulp-canal.

It specially differs from all other forms of hot-air syringes in having, beside the compressible hand bulb, a reservoir bulb by which a continuous current of hot air can be maintained.

Price, complete.....\$4.00 Set of Bulbs for same, extra ... 1.00

Hot Air Syringe No. 30.

Same general style as No. 1, on a following page, but provided with hard rubber similar to above. A piece of carbon is used in heating chamber; this retains the heat for a very long time.

Price, each.....\$3.25

The Simplex Surgical Syringe.

Patented December 27, 1887.

Has neither packing, piston nor valve; made of glass with platinum point, and rubber bulb. May be easily and perfectly sterilized.

PRICE.

Simplex Surgical Syringe, complete with one rubber plug........\$0.50 Soft Rubber plug, each 4 cents.....per dozen, 40

Harvey's Warm Air Chip Blower.

Made by The Ransom & Randolph Co.



Patent Applied For.

Frequently more pain is caused by the use of the ordinary Chip Blower during the preparation of a cavity than in all of the rest of the operation. The pain caused depends upon three principal factors—the temperature of the air, the force of the blast, and the distance of the point of the nozzle from the cavity.

The Blower illustrated herewith is the result of several months' experiment in this direction. The temperature is indicated by a thermometer, the tube of which is marked to show the degree of heat which has been proven to be the most acceptable to a sensitive tooth, while the force of the blast is controlled by the size of the opening from the bulb.

The Heating Cone consists of two parts, a cone-shaped outer covering and an inner cylinder. Upon the circumference of this cylinder is turned a spiral groove through which the air passes. This groove compels the air to travel a greater distance in contact with the heated cone and renders the instrument effectual, while the cone is not uncomfortably hot.

By the use of this instrument the pain incident to the use of a Chip Blower is reduced to a minimum.

Bulb Abscess Syringe No. 28.

Made by The S. S. White Dental Mfg. Co.
Devised by Dr. C. F. Keim.



This Syringe is quickly filled by first unscrewing the pipe; it is also readily rinsed after use. The absence of piston packing or valve precludes leakage on the lip or hand, or the unequal pressure of common piston-tight pistons. The gold pipe is thin enough to enter a pocket or sinus or the mouth of a pulp-canal.

The long tube carries the holding hand out of the way, while with the other hand cotton or temporary stopping is packed in the cavity around the tooth, to insure the forcing of the fluid through the canal, abscess, and sinus. The cut is two-thirds full size.

Price, each.....\$1.50

Hot Air Syringe.

Made by The S. S. White Dental Mfg. Co.



Moffatt's Warm Air Cavity Drier.

No. 2.



Length, 81/4 inches.

Price, each.....\$2.50

Plain Chip Blower.

No. 3.



Valved Chip Syringe.



Length, 6 inches.

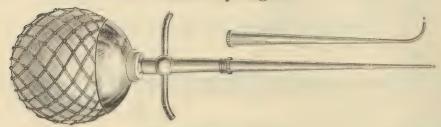
Price, each	50	cents.
Bulb for Nos. 1 and 3	20) ((
'' '' No. 2	Io	
" " 4 with valve		
Pipes for Nos. 3 and 4, each	20	
For price and description of Electric Hot Air Syringe, see	page 8	80.

Bulb Chip Syringe.

Made by The S. S. White Dental Mfg. Co.



Water Syringes.



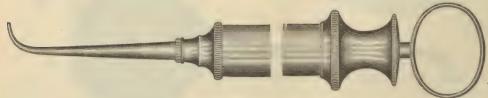
Dr. Moffatt's Syringe.



Instantly filled through large opening opposite discharge pipe.

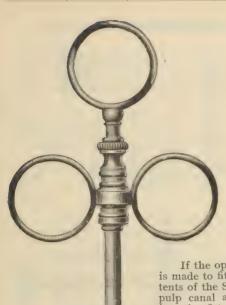
Price, each \$2.25

Metal Syringe.



Total length, 6 inches.

Hard Rubber Syringe.



Lewis Abscess Syringe.

FOR TREATMENT OF

ALVEOLAR ABSCESS, PYORRHŒA
ALVEOLARIS, AND THE
IMMEDIATE RESOLUTION OF
PERIODONTITIS
AND INSIPIENT ALVEOLAR

ABSCESS

This Syringe is so constructed that it can be filled and operated with one hand. The movement of the piston is but one-quarter of an inch, thereby taking up the desired quantity of fluid and no more.

The capacity of the Syringe is so small (a few drops only) that it obviates the annoyance of cauterizing the inside of the mouth when using creosote or other strong medicines.

If the opening into the tooth or pulp canal is made to fit the Syringe point, the whole contents of the Syringe can be discharged into the pulp canal and through the apical foramen and into the fistulous sinus, thoroughly medicating the diseased tract without allowing any of the preparation used to escape into the mouth to cause annoyance to the patient.

In the same manner a few drops of the appropriate remedy may be placed in the pocket between the root and the gum in a case of pyorrhœa alveolaris.

The small amount of fluid contained in this Syringe can be pumped back and forth during its application to the tooth or gum-pocket, keeping it in active circulation and insuring its penetration to every part of the diseased tract.

PRICE.

Lewis Abscess Syringe, with two gold points \$3.50

Minim Syringe.

The cut shows it full size. The compressible rubber bulb and the glass tube fused at its constricted end upon a thin platinum pipe constitute a convenient little Syringe for injecting antiseptics into pulp-canals, sinuses and pyorrhea pockets or sulci. When the cleansing wire is in the pipe it may be carefully curved over a threquarter-inch cylinder like a thread spool, but for resisting the action of acids and fluids like pyrozone and mercuric bichlorid, the thin pipe is made of platinum, which is soft and requires delicate usage. The properly curved thin pipe may be used in all positions without change, but a duplicate Minim Syringe with the straight pipe will prove an additional convenience. It may be cleansed by holding it above the annealing flame, or with alcohol. A drop or two of alcohol may with it be placed in a cavity or pulpcanal to dry it perfectly.

PRICE.

Minim Syringe, each.....\$0.50





Hypodermic Syringes.

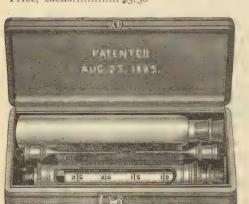
There isn't anything more important than a really good Hypodermic Syringe. The sort that never lets the medicine work back of the packing. The sort that never leaks.

Our No. 1 is this sort. It is what we call a "self-packer," because the packing is expanded by turning the piston. That's the secret of the "never leak."

Price, with two reinforced needles and extra glass barrel..........\$2.50

Extension Brace Syringe.

This is our No. 2. The extension braces permit of a firm grip and insure steady motion of the piston. Made in same style as our No. 1.



No. 3.

This is a plain Hypodermic Syringe, without finger rests.

Price, each......\$1.50

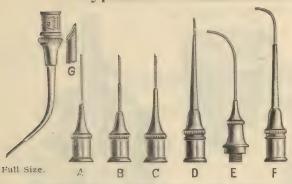
No. 4. Combined Abscess and Hypodermic Syringe.

Case contains two gold pipes—one straight, one curved for abscesses; also a heavy reinforced steel needle for hypodermic use.

Price, each...... \$4.00



Hypodermic Needles and Syringe Tubes.



These Needles should not be mistaken for the cheap variety of unreliable needles on the market, but are first class in every respect, the Steel Needle being made of finest seamless tube, highly tempered, and with very fine concave points (see Fig. G). Our Needles are noted for their fine elasticity, durability and strength.

Special rates on gross and halfgross lots. Writ for prices.

11	Size.	4	В	C	D	E	F		_			
		, ,	U		D	_	'		Eça	ich.	Per Doz	
	A	Plain S	eamless	Steel No	eedle, ni	ckel-pla	ted		25	cents.	\$2.50	
											2.75	
	C	Obtundi	ing Rei	nforced	Needles.	secure	v fastene	ed in our im-			, 0	
								e piece, thus				
		avoidi	ing off	noccibilit	v of leal	7900e		- P1000, 02200	25	6.6	3.50	
	C +	Somo	e an	Cold	Dlotino	x48c			75	4.6		
	C 1.	-Same	-50114	Tarria N	riatina		f a tone	mino tubo in	13		7.50	
	D.—	Crait's	or St.	Louis No	eedle, co	IISISIS (n a tape	ering tube in				
								eel Needle, is		6.6		
			kept c								5.00	
	E	Solid So	eamless	Gold Al	oscess Ne	eedle, st	raight of	curved	90		9.00	
	F	Solid Se	eamless	Gold Le	wis Absc	ess Nee	dle, strai;	ght or curved	80		8.00	
	G	Illustra	tes blun	t point o	on all De	ental Hy	podermi	c Needles (not				
		absces	s). Th	is style	will alwa	iys be f	urnished	unless other-				
			ordered.									
	H -				Syringe.	straigl	it or curv	ved	30	k 6	3.00	
	K _	Pine for	r Moffa	tt's Wate	r Syring	e strai	tht or cu	rved	30		3.00	
	A.S.	1 1pc 10.	LANGILA					10 1			-	

Half-dozen of one style at dozen price; less than half-dozen at single price.
Unless special thread is designated, we will fill all orders for needles with standard screw hubs, although we are prepared to furnish needles to fit all styles and makes of syringes.

S. S. White Annealing Lamp.

Syringe Repairs.

We are qualified for all sorts of repairs for Syringes. For inserting heavy new barrel and new packing the price is 50 cents.

Repaired Syringes are always tested before leaving our hands and are made equal to new.

The Lewis Annealing Lamp.



Brass ornamented tripod, 3¼ inches high, Tray 4 inches in diameter, with Britannia Lamp.

PRICE.

Lewis Annealing Lamp.......\$1.50



Price, each\$2.50

Alcohol and Annealing Lamps.



No. 1 holds two ounces, is 3½ inches high to top of burner and 2½ inches in diameter. Price 30 cents.

No. 2 holds four ounces, is $4\frac{1}{2}$ inches high to top of burner and $2\frac{1}{2}$ inches in diameter. Price, 30 cents.

Shield for flame, nickel-plated......3oc. | Extra Wicks, 2 for.....5c.

Metal Alcohol Lamp No. 4.



This Lamp is especially intended for student cases, taking the space of two bottles, being strongly made of brass, nickel-plated. Size, 2½-inch. long; 1½-inch. wide; 1¾-inch. deep.

Made by The S. S. White Dental Mfg. Co.



The Whitney Annealing Lamp.

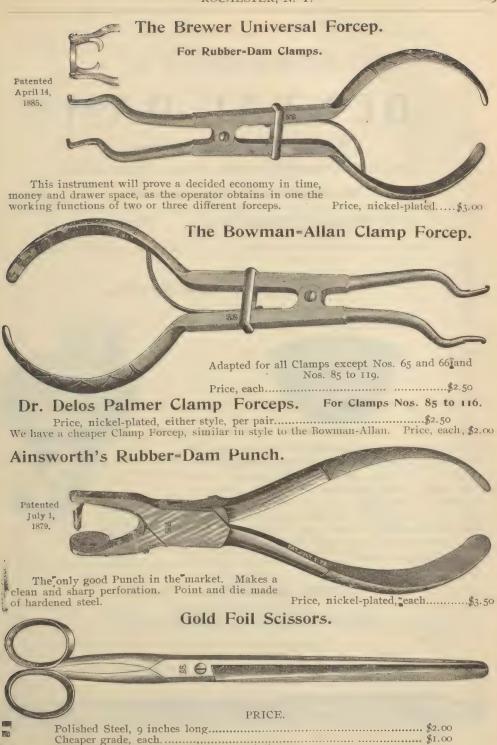


Made by The Buffalo Dental Mfg. Co.

Diameter of Tray, 4 inches. Height of Lamp, 3¾ inches. PRICE.

Whitney Annealing Lamp.....

\$1.50



KLEINERT'S DENTAL DAM

Warranted Not to Rot in Two Years.

VULCANIZED UNDER NEW PROCESS.

25 Sheets 6x9 Inches for \$1.50.

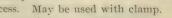
I. B. Kleinert Rubber Co. New York.

Denham's Coffer=Dam Shields.

Made by The S. S. White Dental Mfg. Co.



These little cup-shaped Shields will be found a convenience which once felt will always thereafter be a necessity. Its shape gives it uses impossible to the sheet dam, as in the medication of a cavity where it is important that the drug should not reach the mucous membrane. It will also take the place of the ordinary form of rubber-dams in many cases difficult of access. May be used with clamp.



Made of coffer-dam rubber, and put in boxes containing one dozen.

Price, per dozen \$0.60

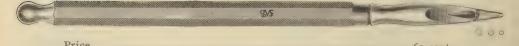
Triplex Rubber-Dam Punch.

Devised by Dr. F. W. Dolbeare.

The Punch is triangular in shape and has three sizes of punch.

Price.....\$1.50

Octagon Bronzed Handle Punch.



TRAUN'S

RUBBER DAM IS THE

IDEAL...

RUBBER DAM.

Traun's Ideal Rubber Dam is the best that anybody ever made. It is vulcanized by a process that nobody else knows any-

thing about.

It is a new process. It is a process that makes the rubber practically odorless. There is no objectionable smell about it. The dentist who uses our Ideal Rubber Dam is going to make his parlors the most pleasant place for people to come for dental work. He is going to make the most money, because

he will give the best satisfaction and the most comfort to

his patients.

Our new process makes our Rubber Dam tougher than any other in the world. It makes it last longest. goods will last twice as long as the ordinary kinds. is no need of waste. There is no chance for it.

When we say our Rubber Dam is almost odorless, and is the toughest and most durable that can be bought, we

tell facts that no dentist can afford to overlook.

Our Ideal Rubber Dam costs no more than the com-Every good dental depot handles it. If you can't buy it of your dealer, send to us direct.

PRICES.

Light, per								 														\$:	I.C	0
Medium,	6.6	6.6	6.6	0		0		 							۰.								1.5	0
Heavy,	6 6	6.6	6 6					 	٠		٠					٠					٠.	4	2.0	0
FI alf	- 870	rde o	+ half	•	4	h	0	Fo	· ge	0	n	0	1 11	10	Y	4	14	1	0	20				

EXCELSIOR RUBBER WORKS,

DR. H. TRAUN, Proprietor.

Factory, College Point, N. Y.

335 Broadway, New York.

The Only Colored Non-Mercury Dental Rubber

Is Traun's "Herakles."—Vermilion used to be considered indispensable in the manufacture of colored Dental Rubber, as it was the only color that could stand the high heat to which it is subjected in the vulcanizing process. Vermilion is made from mercury, and many dentists attribute the occasional occurrence of inflammations of the gums to the action of this drug. We have discovered another coloring substance which does not contain the slightest trace of mercury, and have used it with good success in preparing our "Herakles." We warrant this Rubber to be absolutely free of mercury or any other injurious ingredient, and a dentist using it for his plates can guarantee that the Rubber will not cause any inflammation. It should, therefore, be a good thing for the advertising dentist.

Traun's "Herakles" is strong—stronger than any other Rubber made. Any admixture necessarily takes away from the natural strength of the pure Para Rubber—the color used in Traun's "Herakles" does not. It seems to add to the strength. A very thin plate will do the same service for which a plate of Vermilion Rubber of two or three times the thickness is required. It is evident that this will vastly add to the comfort of the patient, or rather reduce the discomfort necessarily resulting from wearing a plate to the smallest possible degree.

Traun's "Herakles" is cheap to use. The new color does not weigh near as much as Vermilion. A plate, even if made the usual thickness, weighs much less, and the cost of the plate to the dentist is small, as a pound contains 26 full sized sheets.

The color of "Herakles" in the sheet may not look inviting. It is a deep yellow, something like an orange peel, and the boys in the factory call it the yellow fellow. Such a color would certainly be objectionable in the mouth, but, oh, wonder! after vulcanizing it turns to a pretty dark olive shade for which we have invented the name "Olive Dore."

EXCELSIOR RUBBER WORKS,

DR. H. TRAUN, Proprietor.

335 Broadway, NEW YORK.

Traun's Dam is the "Ideal" Rubber Dam.

We have named it "Ideal" on this account.

Novel Rubber-Dam Holder.

Made by The S. S. White Dental Mfg. Co.



The rubber may be gripped at two wide-apart places on either side, and the braids one after the other be drawn through the slide at the back of the head to pull the rubber smoothly out of the way of the operator, and dispense with the use of weights.

PRICES.

Buffalo Rubber=Dam Weights.

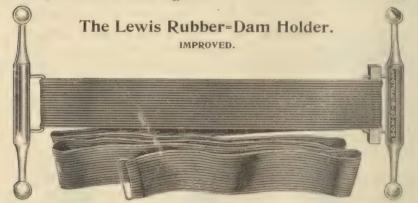


			PRICE	S.			
Buffalo	Rubber-Dam	Weights,	small,		each	25	cents.
6.6							
6.6	. 66	6.6	large		6.6	35	6.6

Improved Rubber-Dam Holder.

Made H. D. Justi & Son. Dr. Cogswell's Design.

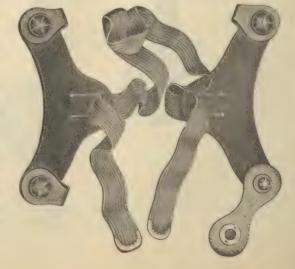




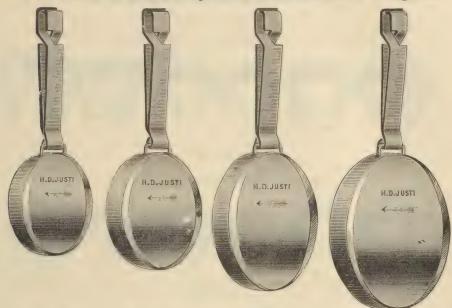
The Carmichael Rubber-Dam Holder.

This is a new form of Holder which will doubtless prove acceptable to many operators. It has four points for attachment, and avoids the necessity for using weights to keep the lower part of the sheet in place. One of the fastenings is shown open at A. To attach the rubber, place it upon part B, bring the other end of A over and press it firmly down, and it will hold the rubber securely. This Holder has but one braid. This is drawn through the slots in the hard-rubber plates, and is easily manipulated.

Price, each......\$1.50



H. D. Justi & Son's Improved Rubber-Dam Weights.



No. 1, 1 oz.

No. 2, 11/2 oz.

No. 3, 21/4 oz.

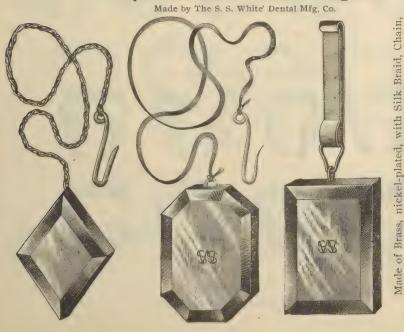
These Weights are attached to the loose ends of the Dam, so as to keep it out of the

operator's way, and from annoying the patient.

They are of solid metal, nickel-plated, the springs are more readily attached or detached than any others.

Price of either size.....50 cents.

Improved Rubber-Dam Weights.



4 to 6, with Silk Braid and Hook each,

with nickel-plated

with nickel-plated Spring Clip,

Rubber-Dam Clamps.

Made by The S. S. White Dental Mfg. Co.

SET OF 6, ORIGINAL ALLAN.-PLAIN.

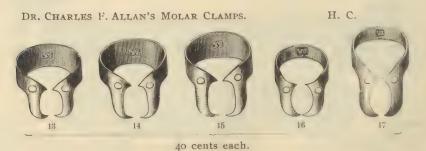


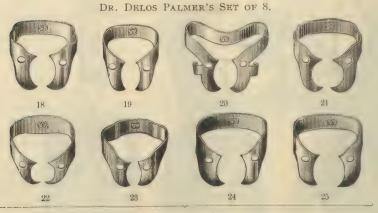
40 cents each.

SET OF 6, ORIGINAL ALLAN. - SERRATED.



40 cents each.

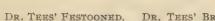




40 cents each.

For description see pages 231-232.

Rubber=Dam Clamps—Continued.



DR. TEES' BROAD FLANGE

DR. W. W. Evans' BEAKED MOLARS.













40 cents each.

DR. HUEY'S.

SMALL IRREGULARITY.

IRREGULARITY.













40 cents each.

SET OF 9, REACH AROUND.





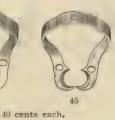














Dr. JNO. W. HOLT'S.

DR. J. W. LYDER'S.











40 cents each.
For description see pages 231-232.

Rubber=Dam Clamps.—Continued.

DR. H. C. LONGNECKER'S.



DR. H. C. LONGNECKER'S "BACK-SET."



DR. SOUTHWICK'S.



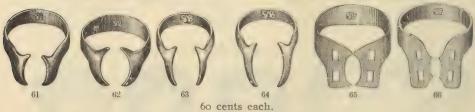


40 cents each.



DR. E. C. Moore's.

DR. W. ST. GEO. ELLIOTT'S.



DR. W. E. BUCKMAN'S.

DR. J. F. P. Hodson's.







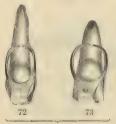


80 cents each.

DR. W. W. Evan's "Incisor AND BICUSPID."

DR. W. W. EVAN'S "INCISOR AND BICUSPID" WITH SET SCREW.

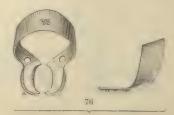
DR. HICKMAN'S.







\$1.00 each.



90 cents each.

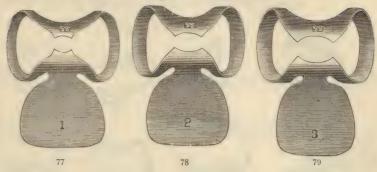
For description see pages 231-232.

Rubber-Dam Clamps—Continued.

C. BANCROFT'S PATENT.

(No. 151,265. May 26, 1874.)

\$1.25 each.









DR. L. YNCHAUSTI'S.

\$2.00 each.

For description see pages 231-232.

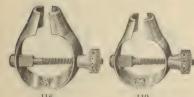
Rubber-Dam Clamp with Tongue=Guard.

Especially adapted for crown cavities, and for under approximal or buccal cavities which do not extend to the cervical margin. With this Clamp alone a tooth may often be kept dry for over and hour.

Price, each......\$1.00



New Root=Clamps for Crown Work.



Adjusters for the application of the dam to roots upon which porcelain crowns are to be fitted. The dam is adjusted over the adjoining teeth, carried beyond the cone-shaped ends of the Clamp with a waxed silk ligature, the Clamp is removed, leaving the dam in position.

Price, each......\$2.00

T. A. Long's Rubber-Dam Clamps.

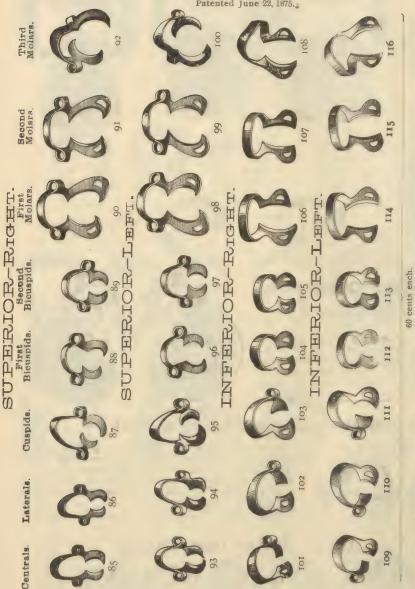


the Clamp firmly beyond the cavity A.

Figure I shows the method of use. B is a block, cut to suit, which holds the jaw of Price, each.....\$0.50

Rubber-Dam Clamps.—Continued.

Made by The S. S. White Mfg. Co. Dr. Delos Palmer's Set of 32. Patented June 22, 1875.



To make selection easy and provide a neat way of keeping the Pahner set of Clamps, we make a handase. Bach Clamp has its appropriate little wooden pcg, labeled and numbered to correspond with the The Case is leather-covered, lined with satin and velvet. We also supply a plain pasteboard box, with the appropriate sizes The pegs are made of numbers on the Clamps, and there is a place also for the Forceps. Clamps they are to hold. some Case.

same arrangement for holding the Clamps

Substituting the Universal Clamp Forceps for the Palmer add 50 cents to the price of complete set. For description, see page 232.

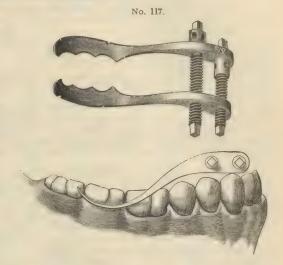
Universal Rubber-Dam Screw-Clamp.

Made by The S. S. White Dental Mfg. Co.

Patented December 26, 1876, by Dr. E. Parmly Brown.

May be adjusted to any tooth, holding the rubber-dam securely. It clasps several teeth at the same time, permitting permanent operations on loose or tender teeth, or upon molars not fully erupted. Cavities beyond the gum-line can be exposed. It affords firm support for the fingers, and avoids risk of injuring the gums or rubber-dam. It allows the patient to close the mouth at intervals, and can be so adjusted as not to inflict

Price, Clamp and Key, nickelplated......\$3.75



Description of Rubber-Dam Clamps.

Nos. 1 to 12. - Dr. Chas. F. Allan's Original Patterns. Nos. 1 to 6, plain edges. Nos. 7 to 12, serrated edges. Designed for general use, the range of sizes being sufficient for all teeth.

Nos. 13, 14, 15.—Especially designed by Dr. Chas. F. Allan for use on lower molars, the inside edges of the Clamp being shaped to conform to the necks of these teeth. They have great back-set, entirely clearing the tooth on which they clamp, and broad flanges to keep the rubber spread.

Nos. 16, 17.—The H. C. Clamps, for ladies' and children's molars. Light, small, and very elastic. They have good back-set and well-spread flanges, affording easy access to any eavity in the tooth they are clamped on. The small hoop allows an easy "open" to the

patient, and enables a very light Clamp to hold the dam down securely without pain.

Nos. 18 to 25.—Dr. Delos Palmer's Set of Eight. Nos. 18 and 19, Universal Clamps for Molars. No. 20, for posterior cavities in molars standing alone. No. 21, for third molars, or any molar of a cone shape. This clamp can oftentimes be turned around while on the tooth, so as to place the hoop out of the way of the operator. No. 22, for bicuspids. No. 23, for lateral or central incisors. Nos. 24 and 25, Rights and Lefts, for cavities under the gum on the buccal or lingual surface of molars.

Nos. 26, 27.—Dr. Ambler Tees' "Festooned." For molars and bicuspids which have

deeply festooned gums.

Nos. 28, 29.—Dr. Ambler Tees' "Broad Flange." For molars and bicuspids. The broad flanges are intended to spread the dam wide.

Nos. 30, 31.—Dr. W. W. Evans' "Beaked Molars."
Nos. 32, 33.—Dr. Robert Huey's "Dens Sap." For very difficult cases to which other clamps are inapplicable.

Nos. 34 to 37.—For teeth which require one side to be smaller than the other.
Nos. 38 to 46.—"Reach-Arounds." Designed for isolated teeth, or wherever the dam requires to be held down between the teeth in a space caused by removal. On wisdom teeth they may be used with the hoop placed forward to compress the dam behind the tooth, in addition to retaining it as a clamp. Nos. 43 and 45 are also serviceable on bicuspids and incisors for holding the dam out of the way of the operator, the long back-set favoring this application.

Nos. 47 to 50.—Dr. John W. Holt's. When labial cavities are low down on the neck of a tooth, it is very difficult to carry the rubber-dam below the cavity and retain it there. These Clamps can be applied without pain, because there is usually a clear spot below the cavity on which the single point can be put, and the Clamp is steadied by the prongs, or

two points, of the inner end.

Description of Rubber-Dam Clamps.—Continued.

No. 51.—Dr. J. W. Lyder's. Of the general shape of the Tees Festooned and Evans Beaked Molar, differing from the latter only in having beaks on both flanges.

Nos. 52 to 59.—Dr. H. C. Longnecker's. The forms are such that the dam may be put over the teeth and long down on the necks with certainty and ease, and because of the recurvature of the flanges that they will not hurt the festoons of the gums, and will yet retain position firmly under hard pressure. Nos. 52 to 56, with straight hoops, must often be unavailable for the tooth to be operated on, but, by reason of the small ''open'' required may be placed on back teeth, and also on the tooth in front. Dr. Longnecker claims for them peculiar usefulness in approximal fillings, in that they permit the finishing of the filling, with dam and Clamp on, more nearly to completion than any other Clamp. Nos. 57, 58, 59, the same general shape of beaks as 52 to 56, but with back-set hoop.

No. 60.—Dr. A. P. Southwick's. To all the advantages of Dr. Huey's Dens Sap Clamp, Dr. Southwick has added in this Improved Clamp a recess for the forceps points and so much back-set in the hoop as allows much freer access for filling than the straight band.

Nos. 61 to 64.—Dr. E. C. Moore's. Dr. Moore says of these that they will get down, and stay firmly as placed, better than any other Clamp he has tried or made. Our cuts show their neatness, and how they must be less obstructive than other Clamps; but their closeness of adaption and perfect smoothness, which, with their great stiffness, permit rigid maintenance in place with very little pain and no injury to the tooth, will be fully known only to those who use them.

Nos. 65, 66.—Dr. W. St. George Elliott's. Designed for molars. After inserting the four studs on the beaks of the forceps through the perforation in the Clamp, the rubber dam is to be strained over the studs under the Clamp. The Clamp is then adusted upon the neck of the tooth, and the forceps disengaged, when the rubber will slip under the Clamp up to the neck of the tooth. It will, however, usually lodge on the crowns of adjacent teeth, until the operator, by a slight stretching motion of the rubber across the mouth, causes it to slip between them.

Nos. 67, 68, 69.—Dr. W. E. Buckman's Plain Hinged Clamps. Designed to meet a want for a Clamp the hoop of which can be turned down so as to permit of work at the tooth on which it is placed.

Nos. 70, 71.—Dr. J. F. P. Hodson's. For labial or buccal gum cavities.

Nos. 72, 73, 74, 75.—Dr. W. W. Evans'. These Clamps are designed for use in filling labial surfaces of incisors, cuspids and bicuspids, when the cavity is close to or under the margin of the gum. They can be put on without the aid of forceps, as the peculiar shape of the beak adjusts it to the lingual surface of the tooth, and it has sufficient spring to retain its position in most cases. Made in two sizes, and with or without regulating screw. The office of the screw is to tighten the hold in cases where the Clamp does not fit securely.

No. 76.—Dr. F. Hickman's. This Clamp is made with a double lip, forming a clear space for the rubber to be lodged in before applying to the tooth. When the rubber is punched, it is to be put on the Clamp by stretching it over the lip and allowing it to fall into the recess. Then apply the Clamp and rubber, spreading both together; after which stretch the rubber out of the recess, or free space, and allow it to close on the neck of the tooth. This is especially adapted to teeth which are spurred and jagged, or broken down low on one side.

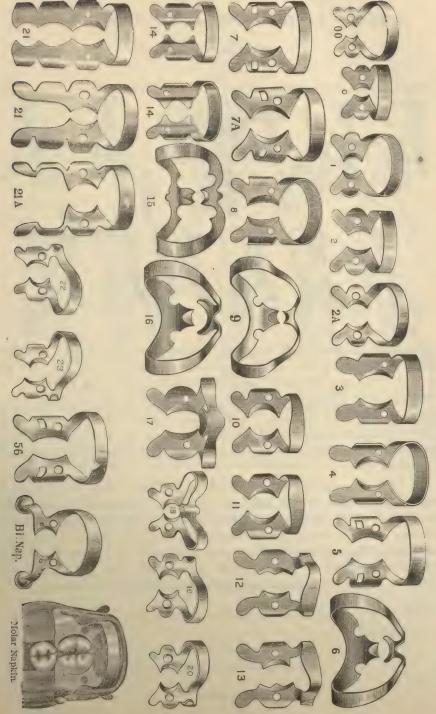
Nos. 77, 78, 79.—C. Bancroft's. Patented May 26, 1874. Combined Rubber-Dam Clamp and Tongue-Holder. For use with rubber-dam or napkin; very convenient in cases where the tongue obstructs the sight or interferes with the work.

Nos. 80, 81, 82.—Dr. L. Ynchausti's Hinged and Jointed Clamps. The beaks are set in the groove of the joints and work independent of the hoop, which is also hinged in another groove of the joint.

Nos. 85 to 116.—See page 230.—Dr. Delos Palmer's Set of Thirty-two. Patented June 22, 1875. Designed for every tooth in the upper and lower jaws. Taft's "Operative Dentistry" says of these Clamps: "The profession is largely indebted to Dr. Delos Palmer for the most efficient Clamps that have been in use for several years, and wholly indebted to him for the very perfect set represented." The late Marshall H. Webb used this set largely. In his "Notes on Operative Dentistry," he says: "The most complete, satisfactory and useful, and those causing the patient the least pain, are the set of thirty-two (a special Clamp for each separate tooth) devised by Dr. Delos Palmer."

Nos. 83, 84 and 117 to 129 and 231 are described with the illustrations.

Ivory's Clamps. (Partial List.) Patented June 12, 1888; April 2, 1889; January 23, 1894.

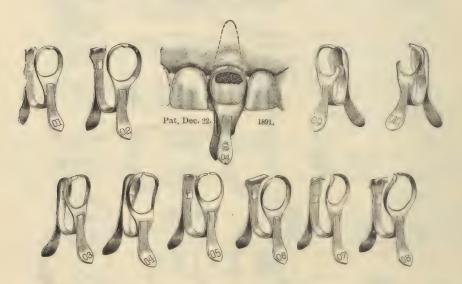


For Prices see page 237.

Meister's Set, No. 1,

Improved Lever, Incisor and Bicuspid Clamps.

Patented December 22, 1891.



In calling the attention of the Dental Profession to these Clamps, it is hardly necessary to mention the universal recognition accorded to Drs. W. W. Evans and J. F. P. Hodson, and others, for designs of clamps for front teeth.

The inventors claim that the great value of these Clamps over others can be readily seen from the illustrations, in the easy manner of application and removal. A pressure on the extended levers between the thumb and forefinger opens the Clamp, and when released it closes again with sufficient tension to hold it in position.

Nos. or to o4 are of the well-known designs of Drs. Evans and Hodson; No. o5 is for lower incisors, or very small teeth; No. o6 is adapted for more general use on all front teeth; Nos. o7 and o8 are designed especially for that class of troublesome cases in which the cavity extends very close to or under the gums, on the labial surface; Nos. o9 and oro are rights and lefts of the Evans' design for approximal cavities. For general use on bicuspids, Nos. o2, o4 and o8 are best adapted, but in some cases other numbers can be used to advantage.

Price,	each\$1.00
c c	per set of 10 8.50

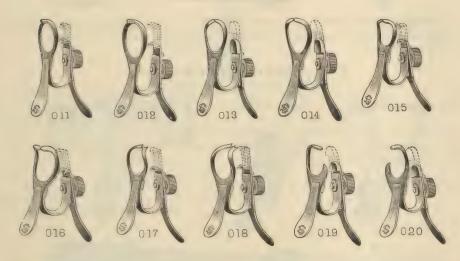
GIDEON SIBLEY, Sole Agent,

PHILADELPHIA, PA.

Meister's Set, No. 2,

Improved Adjustable Lever, Incisor and Bicuspid Clamps.

Patented November 8, 1892.



In offering this set of Clamps to the Profession, we believe that the inventors have made an improvement that will make them perfectly adaptable to all cases.

While we think set No. 1 of the "Meister Improved Lever Clamp" will meet nearly every required want, we have had some to express the opinion that in some cases, if the portion of the Clamp that extends on the palatine surface of the tooth were a little shorter, it would be more serviceable.

To this end the inventors have made a study, and we take pleasure in introducing to you a Clamp that can be regulated to meet every case.

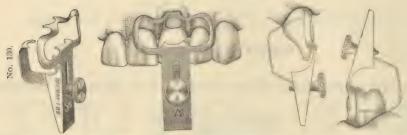
Price, each.....\$1.75

GIDEON SIBLEY, Sole Agent,

PHILADELPHIA, PA.

Dr. How's Cervix Screw Clamp.

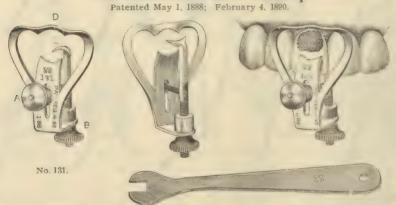
Made by The S. S. White Dental Mfg. Co. Patented May 1, 1888.



The illustrations show the Clamp in position on an upper central and a lower bicuspid, the cavity in each extending far beyond the normal gum margin.

Price, each......\$2.25

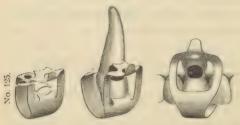
The Johnson Cervix Clamp.



By means of the nuts A and B this Clamp may be adjusted to and firmly fixed on any tooth anterior to the molars.

How's Cervix Clamp.

Patented May 1, 1888.



The use of the Cervix Clamp in holding back the gum from a cavity in the tooth-neck is made obvious by the illustration.

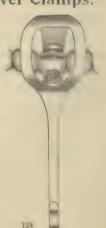
Johnson's Lever Clamps.

Patented Sept. 20, 1887.

For use in filling cavities which extend under the gum margins of incisors, cuspids and bicuspids.

The Clamp is easily adjusted and the gum is not disturbed except at the point where the work is to be performed, where the clamp acts as a protector.

Price, each, \$1.00



Ivory's Adjustable Clamp.

Patented January 23, 1894.

A Wonderful Success.

Just What is Wanted.

Surpassing
All Other Attempts.



None Equal to It for

Cavities Deep

on the

Neck of the Tooth.

This Clamp is tightened to a tooth by means of a slide.—See Drawing.

It is simple, out of the way and easy to work; a comfort in comparison with others, holds firm and goes deep.

The construction is so simple that explanation is unnecessary. It may be adjusted to go higher on the tooth without removing, simply by loosening the set screw and sliding the arm attached to the Labial Jaw farther through the slide, then tightening the screw again.

Should the slide fastener have a tendency to slip on very large teeth, pin holes are made in the arm to hold it at any place desired.

Warranted to give satisfaction.

Price......\$1.50



Prices of Ivory Clamps.

For Illustrations see page 233.

Nos. co, o, I, 2, 2A, 3, 4, 5, 56, 7, 7A, 8, I4each,	\$ 0.80
" 6, 9, 15, 16, 17, 18, 21, 21A	1.00
(IO, II	1.50
" 12, 13, 19, 20, 22, 23, "	1.75
Special selected set of four, consisting of	
Nos. 1, 2, 7 and 8, per set	3.00

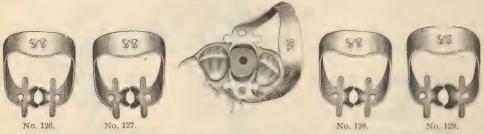
Sterilizer.

Every instrument a Dentist uses ought to be sterilized every day. It isn't safe to do anything else. The cost of this device is so slight that it shouldn't stand between doing and not doing something that ought to be done. To sterilize his instruments is a duty every careful operator owes his patients. It is a duty he owes himself. This Sterilizer is made of brass and copper, nickel-plated.

Price, each......\$2.50

Root Clamps for Crown Work.

Made by the S. S. White Dental Mfg. Co.
Designed by Dr. Ottolengui.



The set consists of two pairs. The rubber-dam is first stretched over the Clamp lugs, thus permitting a view of the root, and then pushed well under the gum.

Price, each \$1.50

Climax Cervix Clamps.

Patented May 1, 1888; June 21, 1893.



In use, the Clamp is first placed on the tooth, which it grips with remarkable firmness, and the rubber-dam, punched through the largest hole of the Ainsworth punch, is then stretched over it. There is no risk of dislodging the Clamp. The set of six will be requisite in a practice of considerable extent, though the first four numbers will meet many presentations satisfactorily.

PRICES.

The Improved Sawhill Separator.



The superiority of this instrument over all others will be readily appreciated at a glance.

Having but one cross brace and arm, and those being connected to revolving points or wedges, permits the brace being turned to either side out of the way of the operator while it is in use, without removing until the operation is completed.

It is perfectly universal, being applied to the molars as easily as to the anterior teeth.

Disactions

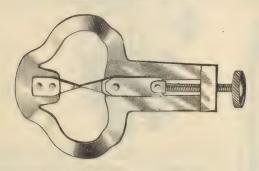
Directions.

In placing it in position for use, adjust the wedges on the inside of the arch with the plain deep-cut surface away from the gum, and the one on the outside towards the gum, so that as they approach and pass each other the two surfaces will slide close together.

Price......\$3.00

Ivory's Universal Double Bow Separator.

Patented September 16, 1890.



The above Separator is so easily adapted to the teeth, front or back, that it has at once become popular. The force of the screw being applied direct, it will turn with the thumb and finger with very little effort. The beveled sides of the wedges facing the gum prevents (when the wedges catch the teeth) any slipping of the instrument, to cause unnecessary pressure on the gum, yet holding the gum and rubber well away from the margin of the cavity. When greater space is desired the points of the wedges will pass each other.

ADVANTAGES.

The double bow steadies the instrument, preventing the lateral motion, assisted by the beveled edges of separating points. The bows are wide apart, giving plenty of room.

Finishing strips can be used by passing one end between the outside frame and the teeth.

Its universality of adaptation is a mighty factor. It will be noticed that the inside separating points can be removed, or longer or shorter points substituted, as the case may require. (We furnish two with each instrument.) These are all we have found necessary, the longer of the two for anterior teeth and the shorter for molars and large bicuspids; but in case an extra short point would be required for extraordinarily large teeth, we can supply an additional wedge at any time. In very narrow arches, if the point should be required to be longer, so as to bear on the inside of the teeth, by moving it forward and inserting a piece of wedge wood back of it, you can make it any desired length.

The front wedge (which is movable) is attached to the screws by a swivel joint, moves back and forth in a groove by means of the thumb screw, and is always easily operated. The screw being held out by the frame is always manipulated outside of the mouth. Being quickly applied it is invaluable in getting space for examination, immediate filling, for finishing strips, removing dark stain on proximal surfaces, etc., or removing old amalgum fillings that have become loose in cavity of teeth. The general advantages are to save time, to help you do good work, to allow you to fill proximal fillings in the first stages of decay, and a special advantage of almost doing away with ligatures around the teeth.

To hold the cheek back while filling back molars and to hold the rubber well away from the gingival margins, and also to prevent the necessity of poorly finished fillings—thus securing the good-will and estimation of your patients.

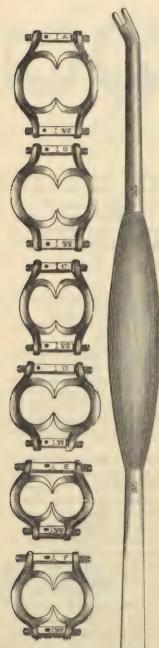
By using menthol on the gums before applying or removing the Separator, and treating the gums with a mixture of iodine and menthol afterwards, there will be no danger of any injurious after-effects from immediate separation, and very little or no pain in separating.

Price......\$3.50

Perry's Two Bar Separators.

Made by The S. S. White Dental Mfg. Co.

Invented by Dr. Safford G. Perry. Patented September 8, 1874; July 5, 1887.





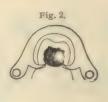


Fig. 1 shows the Separator applied. When there is a tendency, as with teeth of narrow necks, to slip toward the gum, wood or gutta-percha props are to be put on the adjacent teeth under the bows to prevent them from tilting and to keep the points from being forced under the gums while the teeth are being separated.

Fig. 2 shows the position of the bars—out of the way of the operator.

PRICES.

Two Bar Separators, each
Wrench, for same, '' 1.25
Small Wrench for same, each
Set of 6 in case24.00

Universal Separator.

Invented by Dr. H. A. Parr. Patented September 8, 1874; October 5, 1886.



This Separator is universal in application and adjustment between the teeth of all denominations in either jaw; it is therefore manufactured in a single form of the exact size of the cut.

Will render practical service in every part of the mouth where two teeth are to be forced and held apart from any dental operation.

PRICES.

Universal	Separator	with	Wrench.	 \$7.50
Wrench, s	separately			 . 0.25

Dr. Elliot's Separator.



Not only for getting space for filling teeth is this Separator useful, but for examinations, cleaning, separating after filling for strips, disks, etc. It is universal in its application, is easily adjusted, and is out of the way more than any other Separating Instrument in the market. Screw operates in either end of yoke.

INSTRUCTIONS.

Practically the Separator as shown in the above cut is placed on the teeth wrong. To separate for space here indicated, the hinged part of the Instrument would be over the Incisor, instead of the Molar Teeth. The screw would be required to be taken out and put into the other end of the bar, as it works in either end according as it is the most convenient for the operation. The lettered side of the Separator faces the operator. A spring opens the jaws as the screw is slackened. The jaws are arranged to pass one another, and beveled to prevent any tipping of the Instrument forward. The rubber is held out of the way by the extending blades. The force is applied by the thumb-screw.

Price......\$2.50

THE ANGLE SYSTEM

· Regulation and Retention of the Teeth ·

-AND-

TREATMENT OF FRACTURES OF THE MAXILLE.

Revised and Enlarged, with One Hundred and Thirteen Illustrations.

Published by The S. S. White Dental Mfg. Co.

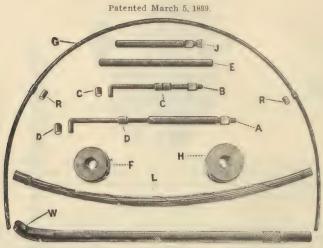
Fourth Edition.

BY DR. EDWARD H. ANGLE.

Dr Angle's book is in fact a practical treatise on orthodontia with numerous illustrated examples of cases from actual practice. Many new combinations that simplify and facilitate treatment, together with several new and important improvements, characterize the fourth edition. These modifications and additions will prove advantageous and satisfactory to the busy practitioner, student and teacher. It contains instructions covering in detail the methods for the easy adaptation of the well-known and widely-used Angle Regulating Appliances to either the simplest or most complicated cases. These are supplemented by simple and effective illustrated means and methods for the reduction and fixation of jaw fractures.

Angle's Regulating Appliances.

Set No. 1.



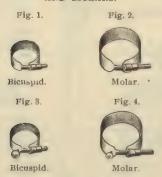
PRICES.

Set No. 1, complete (including 100 page descriptive Book)
PARTS SEPARATE.
Traction Screw "A" and "D"
" "B" and "C"
Jack-Screw "E" and "J"
Coils of Band Material "F" and "H," each
Retaining Wire 'G''
Rotating Levers 'L,' per ½ doz
Wrench, each

Extra Parts.—HEAD GEAR. Patented July 17, 1894.

Extra Parts.

ADJUSTABLE CLAMP BANDS FOR BICUSPIDS AND MOLARS.

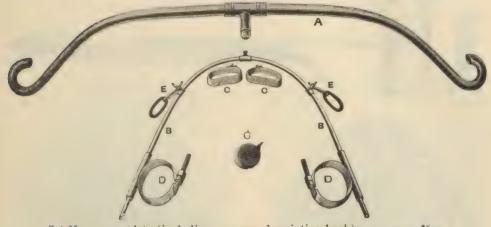


PRICES.



Angle's Regulating Appliances. Set. No. 2.

Made by The S. S. White Dental Mfg. Co. Patented Nov. 26, 1889.

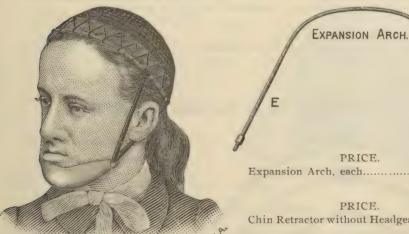


Set No. 2, complete (including 100 page descriptive book)\$6.	.50
Traction Bar 'A' each, \$2.	
Wire Arch "B" " 1.	.50
Anchor Band and Pipes "D," complete" 1.	50
Coils of Band Material	50
Heavy Elastic Bands, set of six	40
Wrench, each	15

Extra Parts.

CHIN RETRACTOR.

EXPANSION ARCH.



Expansion Arch, each..... \$1.50

Chin Retractor without Headgear, each \$2 50

Wire Stretching Pliers.

Devised by Edward H. Angle. Patent applied for.

These Pliers are found especially useful in regulating the teeth. The peculiar form renders them easy of application in any part of the mouth. A little experience will render the operator skillful, and he will probably be surprised to see how much can be accomplished with them. They should not be used on hard or large wire. Price.......\$3.75

Annealed Wire. For Angle Regulating Appliances.

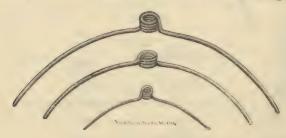


These Screws combine the screw and spring methods for moving teeth. The turning of the screw causes a forceful action to the extent only of the screw thrust.

PRICES.

The Set, complete	\$5.00
Pushing Spring Jack, (Short or Long Head)	I.75
Extra Heads, each	. 50
Pulling Spring Jack, No. 3	2.50
Wrench	. 25

The Norton=Talbot Regulating Springs.



See article of Dr. Talbot, page 274, in "Dental Cosmos" for May, 1885.

These Springs are made of piano wire in three sizes, as shown by the cuts. The How Screw-post (prefer ably the solid headed screw-post) may be employed to fix the Spring.

PRICE.

Either size, nickel-plated, each...15c.

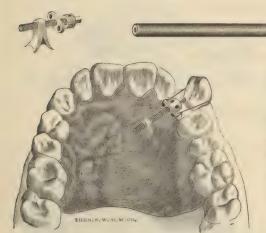
French Rubber Tubing.



For regulating teeth and for conducting liquids or gases.

Dr. F. H. Lee's Improved Regulating Screw and Pull-Back.

Made by the S. S. White Dental Mfg. Co.



For drawing in obstinate cuspids which have erupted outside of the line of the arch, but it will work with equal satisfaction on any of the other teeth.

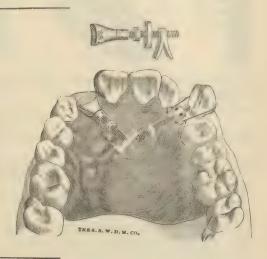
The post or nut is set in position and held by vulcanizing into a rubber-plate fitting the mouth, as shown in the cut; the screw-bolt is then placed through the post, and a wire or ligature (wire preferred) is passed around the tooth, the ends being secured to the holes in the cross-head or swivel-block. The wire is then tightened from time to time as the tooth is brought to its place.

Price.....\$2.00

The Lee-Bennett Jack-Screw for Regulating Teeth.

Combines a swiveled Jack-Screw with the forked post-nut, so that any tooth may be pushed outward into line as shown by the cut. On occasion, both devices may be fixed in the same plate, and be simultaneously operated, the Lee to pull back one tooth, and the Lee-Bennett to push out another.

Price, Lee-Bennett Jack-Screw \$2.25



Spring Wire Coiler.

Made with four mandrels of different sizes and used for coiling piano wire for use in regulating. The uses of this device are manifold.

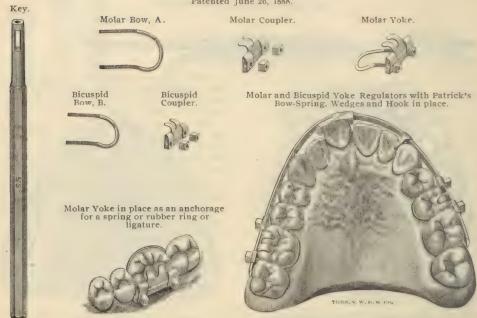
Price, each \$1.75

Piano Wire Cutter.

A special cutter with strong shearing blades, in each of which are half round notches that effect a clean cut. This is a useful tool and will soon save its cost in lieu of spoiled shears and nippers.

Yoke Regulator.

Made by the S. S. White Dental Mfg. Co. Patented June 26, 1888.



The Yokes will serve for one case after another, year after year, for any of the Molars or Bicuspids in either jaw. They can be used either with or without the Patrick Regulator Bow.

PRICES.

PARTS SEPARATELY.

Molar Coupler, 18-carat Gold	each,	\$ 2.00
Molar Bow, A, 18-carat Gold	6.6	.75
Two Nuts, 18-carat Gold	"	25, .50
Making a complete Molar Yoke	6.6	3.25
Bicuspid Coupler, 18-carat Gold	6.6	1.75
Bicuspid Bow, B, 18-carat Gold	6.6	.70
Two Nuts, 18-carat Gold	6.6	25, .50
Making a complete Bicuspid Yoke	6.6	2.95
Key, nickel-plated	6.6	. 25

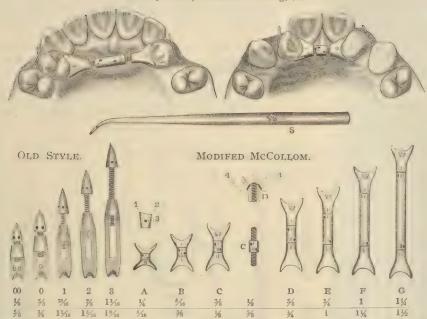
Patrick Regulators.

All the parts, including the spring, are made of 14-k gold.

Complete set, with 12 slides, K, in all thirty-one pieces. \$18.25
A, Bow-Spring. , each, \$3.00
B and C, Wedges. , 60
D, Anchor Bands. , 2.50
Band, alone. , 1.50
Set Screw, alone. , 1.00
E, T-bars (6). , each, 40
H, Hooks (7) , 50
K, Slides (12). , 25
I, Cuspid Hook. , 75
Molar Anchor Bands , 2.75

Jack=Screws.

Made by The S. S. White Dental Mfg. Co.



Each Jack-Screw length, closed, is indicated above the line in fractions of an inch; the open length is found below the line.

PRICES

Old Style Jack-Screws, Nos. oo to 3		\$1.50
Modified McCollom Jack-Screws, A to G	. "	1.50
Tack Screw Din Wrench	6.6	20

Old Style Jack-Screws.

These are of the ordinary shape and in three sizes, as follows: $\frac{7}{8}$ inch opening to $\frac{1}{8}$ inch, $\frac{1}{8}$ inch, $\frac{1}{8}$ inch, opening to $\frac{1}{2}$ inch. By a new process we have recently adopted, these Jack-Screws are perfectly protected from rusting. They are always ready, and after long continued use will be found to turn as easily as at first.

Price, Old Style Jack-Screws, each......\$1.00



Southwick's Pattern of Jack=Screw.



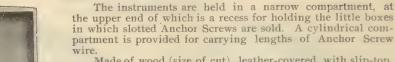
Especially designed for use against bicuspids for expanding the arch. One tooth is moved at a time; the plate being notched for the reception of the revolving head of the Jack-Screw, which bears directly upon the tooth. New rubber is vulcanized in the notch to retain the tooth in position.

Three sizes are made, the same in length as the above. They are also rust-proof.

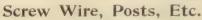
Price, Southwick's Jack-Screws, each\$1.00

Case for Anchor Screw Appliances.

Made by The S. S. White Dental Mfg. Co.



Made of wood (size of cut), leather-covered, with slip-top. Price, Case \$0.50
'' Complete as illustrated with 6 Screws,



Screw Wire.

			No.	Length.	Diam. Thre	eads to inch.	Price per rod
Morrison's			I	3 in.	.052)		\$1.50
6	6.6	6.6	2	3 ''	.042	112	1.20
6.6	6.6	6.6	3	3 "	.035		1.00
Talbot's	18-K.	6 6	4	2 "	.060		1.50
4.4	4.6	6.6	5	2 ''	.058		1.50
6.6	6.6	6.6	6	2 ''	.051	54	1.00
4.4	6.6	6.6	7	2 ''	.046		1.00
6.6	6.6	6.6	8	2 ''	.041		1,00
Anchor	6.6	6.6	9	2 ''	.030		1.00
" Irid	io-Plat	inum	10	2 ''	.030 \$	100	1.25

Screw-Posts.

	No.	Length.	Diam.	Threads to inch.	Price each
How's 14-K. Gold,	Here AA)	.051)	\$0.45
	1000000000000 A	- 7/s in.	.058	48	.55
	висимущина В)	.065)	.65
" Bright-Metal,	AA	1	.051		.15
	A	7/8	.058		. 15
66 66 66	В)	.065		. 15
" Crown-Metal,	AA		.051	48	.50
16 66 66	A	5/8	.058		.60
	В)	.065		.70

Screw-Posts with Heads.

		No. 1	Length.	Diam.	Threads to inch.	Price each
Bright-Metal,	5500 5500 2500		} 5/8 in.		48	\$0.35 .35 .35

Anchor Scrows *

	Allelioi Belew	5.		
Gold			100	. 20

Nuts for Screw-Posts.

.....each, 50 cents. Gold three sizes, AA, A, B,

The Morrison Screw Wires are used with the taps and drills

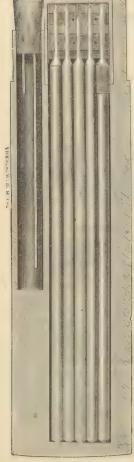
of the instruments known as the St. Louis System.
*Anchor Screws, both Gold and Iridio-Platinum, are put up in boxes of 6 screws each.

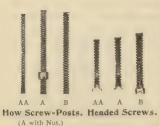
How Screw=Posts.

The different sizes of the How Screw Posts are shown herewith. They were made originally for anchoring the How and other crowns, but will be found very useful in many cases of regulating. The nuts are made of three sizes to suit the different sizes of Posts AA, A, and B. We illustrate in this connection the old form of headed screws which are made of the same sizes as the How Posts.

For prices of Screw Nuts, Screw Posts, Screws, and Nuts, see above.







Best Quality Piano Wire for the Coffin Split-Plate.

We are prepared to supply five sizes of wire for regulating teeth by the Coffin Splitplate method. Put up in bundles containing two pieces, 7½ inches long, of each of the five sizes.

Price, per bundle......20 cents.

Gold Ligature Wire.

As this Wire is strong and pliable, it is better adapted to ligatures than platinum wire, which is generally used. Anneal before using. It is put up without being annealed, to keep it in shape.

Price, per dwt......\$1.50

No. 1. No. 8. Anchor Screws and Appliances. Made by The S. S. White Dental Mfg. Co. No. 2. B No. 4 C No. 5 No. 6 D E No. 7

Cut No. 1 shows the size of the 18-carat Gold Anchor Screw.

No. 2. Iridio-Platinum Anchor Screw, same diameter, but longer than No. 1.

"A." Anchor Screw magnified to show thread and slot.

No. 3. The Starting or Center Drill will form a pit at the exact point desired.

"B." Point of Center Drill magnified.

No. 4. Limit or Anchor Drill; will bore only to the depth determined by the limit shoulder—half the length of Screw No. 1.

"C." Point of Limit or Anchor Drill magnified.

No. 5. Screw Tap.

No. 6. Screw-Driver and Sleeve which holds the screw for insertion or removal as shown magnified at D.

No. 7. Will drive an Anchor Screw or a section of Anchor Screw Wire, but it cannot be used to back out a slotted screw as the Driver No. 6 can. Its principal use is in screwing home sections of the wire.

"E" and "F" exemplify the Anchor Screw in gold contouring operations. A drilled and tapped hole to be filled with gold foil serves as a superior retaining point.

PRICES.

No. I.	Gold Anchor Screws	each,	\$0.20
	Iridio-Platinum Anchor Screws		
No. 3.	Center Drill	. 6.6	.25
	Anchor Drill		
No. 5.	Anchor Tap		.50
No. 6.	Anchor Screw-Driver and Sleeve	. 66	.30
No. 7.	Anchor Screw Chuck		1.00
	of five instruments, per set		
Center I	Orill No. 3 and Anchor Drill No. 4 are also made for use with engine,	each	. 25

Fixed-Blade Separator.

Made by The S. S. White Dental Mfg. Co.

Devised by Dr. Gordon White.

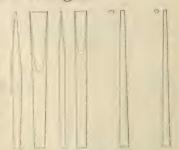
For immediately separating teeth, whether for operations or for thorough examination. It is manipulated by forcing the thin portion of the blade between the teeth to be separated, then pulling outward slowly and firmly with a little swaying motion, until the proper space is obtained. Price, nickel-plated, 75 cents.

Improved Orange=Wood Wedges.

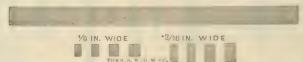
Suggested by Dr. J. M. Byers.

A convenience to the operator because they are nicely, smoothly sharpened, won't sliver or splinter or break, and won't tear the rubber-dam. They are a comfort to the patient, because his gums are not lacerated. Then the price at which they are sold—so low that the dentist cannot afford to whittle out his wedges as long as he can buy these. Equally useful in separating and regulating.

Put up in boxes containing one gross each, assorted shapes and sizes. Price, per box, 15 cents.



Rubber Strips for Separating Teeth.



These Strips are largely used, and are much preferred to any other forms. Made of two widths, viz: $\frac{1}{8}$ and $\frac{1}{3}$ inch, and of four thicknesses. Length, 3 inches. Put up in boxes containing 50 Strips, assorted sizes. Price, per box, 25 cents.

Graduated Rubber Wedges, Dr. Genese's.

Pure Rubber for Separating Teeth.

Price, per ounce.....30 cents.

Boxwood Wedge Slips.

Cottonwood Wedge Slips.

Orange-Wood for Wedging.

SUPERIOR QUALITY.

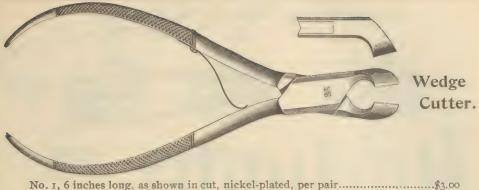
Price, per bundle.......o cents.

Chase's Dental Wedge Forceps.

Patented June 21, 1881.

By the use of the Wedge Forceps teeth can be readily forced apart with much less pain to the patient and considerably less trouble to the operator than by any other method. This instrument is provided with a rubber cushion which forms an elastic bearing, thus preventing the inward pressure while the wedge is being forced between the teeth.

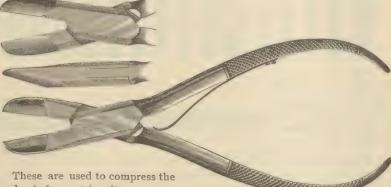
Price, complete, including two do	ozen wedges and two	rubber pads\$3.00
Rubber Pads, each		
Wedges, per doz		



No. 1, 6 inches	long, as shown in cut, nicl	kel-plated, per pa	ir\$3.00
No. 1, 5 "	6.6	(3.00
No. 2, 5½ "	Dr. Morrison's pattern,		3.00

Wedge-Cutter and Wedge-Compres= sor.

Design of Dr. Chas. Miller.



wedge before cutting it.

Price, nickel-plated, per pair......\$3.00 | Cheaper grade.....\$2.25

Gilling Twine.

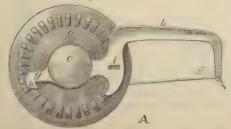
1	Put up in	Plaits	s, convenient for use, in lengths of twenty-four inches.	
Price,	per Plait.		\$0.I	01
16	½ lb.	Ball,	coarse or medium 1.0	00
6.6			fine I.2	

Dental Floss Silk. Two varieties.

The two varieties of Floss Silk which we offer, Plain and Waxed, are made expressly and solely for our sales, of superior stock, and warranted all silk.

Put up in spools containing 12 and 24 yards each.

	Per F	Half Gross.	Per Doz.	Per Spool.
	12 yard spools	4.00	\$0.75	\$0.08
PLAIN	24 ''	6.25	1.35	.15
	150 "	38.25	8.00	-75
(12 yard spools	6.00	1.25	.12
WAXED -	24 "	9.50	2.00	.20
1	150 "	45.50	9.50	.90



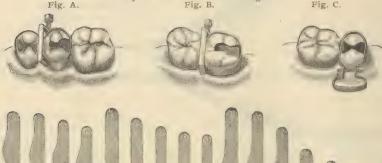
Floss Silk Holder for the Pocket.

A very excellent device for carrying Floss Silk to be used for cleansing the teeth.

Price,	each.				\$	00.1
6.6	Plain	Round	Holder			.25
6.6	6.6	6.6	6.6	with	cutter,	.50

Guilford's Band Matrices and Clamps.

Made by The S. S. White Dental Mfg. Co. Fig. C. Fig. A.



3 5 6 7 8 9 12 10 11 13 14

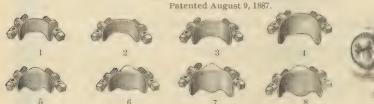


Applicable in a large variety of cases, some of which are shown in Figs. A, B, C. DDIGTA

FRICES.		
Set of Matrices, complete, 4 Holders, 16 Bands, 1 Key		\$5.35
Holders, A, B, C.		
" D		
Bands	6.6	.IO
Ver	6.6	05

Double-Screw Matrices.

Devised by Dr. W. A. Woodward





These Matrices are especially useful in filling extensive cavities with weak walls in teeth of poor structure. Fig. A shows the method of application.

PRICES.

Double-Screw Matrices.....each, .75 Key-Wrench for same.....



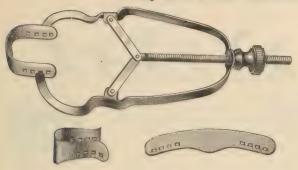
Loop Matrix.

Invention of Dr. W. Pinney.

The cut explains this ingenious appliance and tells its usefulness. The loop is made of soft steel which can be bent and adapted with pliers. They will be required of various thicknesses, and to be occasionally replaced. The windlass-nut can be turned by inserting a point in the edge holes.

Price, nickel-plated..........\$1.50 | Price, Extra Loop......each, 15 cents

Ivory's Matrix Retainer, No. 1.



Patented April 1, 1890.

This Instrument is one of the most convenient in the dental outfit, as a band can be applied to a tooth in such short order, and that with as pretty an adaptation of the latter to the tooth as any could desire. Appearances are against the Instrument in regard to length and size; but it re-quires length to reach back to the distal teeth. There is no dependence on any other tooth in order to work this retainer, clasping a band for an anterior

or distal cavity in a tooth equally as well. One dozen Bands made of the finest quality of steel from 3 to 4-1000th of an in thickness, going with each Holder. Having made a great improvement in my Banks by a process of toughening the steel, the maker can offer a better article than heretofore. The application is so evident, instructions are unnecessary.

TESTIMONIALS.

BUTLER, Mo., August 29th, 1890. I am much pleased with your Matrix Retainer and Matrices for general purposes; they W. E. TUCKER, D. D. S. are the best out.

J. W. IVORY, SPARTA, WIS., October 16, 1889. Dear Sir:—If you remember, I bought a Matrix Retainer and Separator of you at the Milwaukee Convention. I am up here to-day and brought them along to show to my preceptor, and he wants them; but I have forgotten the price, so that he cannot send the money. Send a Matrix Retainer and Separator to Dr. E. P. Hall, Sparta, Wis., with bill, and if he does not remit, I will. I am very much pleased with them and your Clamps and could not help but give my old preceptor a good thing, also giving you your just deserts for making such useful instruments.

DR. H. SHERWOOD, Tomah, Wis.

Dr. J. W. IVORY, CHICAGO, December 14th, 1891.

Dear Sir: -Will you do me the favor to send me one of your Matrix Retainers. have one which I have used with increasing satisfaction since your visit to Chicago at our dental meeting some years ago and want another for my assistant.

I am yours truly, EDMUND NOYES. Price, with one dozen Bands.....\$2.00

Ivory's No. 2 Matrix Retainer. Patented May 3, 1892.



This Instrument is a modification of my other Retainer, to be used on Cuspids, Bicuspids and first Molars.

INSTRUCTIONS.

In applying band to the Retainer, hold the band at right angles with the arms, so that the oblong points of the latter fit in the oblong holes of matrice, then bring the matrice horizontal with the arms, and the band is locked to the Retainer. With the band thus attached to the Retainer, fasten to the tooth. The points of Instrument bearing against the adjacent sides of the tooth hold the Matrix firmly. Remove from the tooth by loosening the screw, the spring throws the jaws apart, straightening the band, when it comes away without any injury to the filling, should it be of plastic material.

NOTE.—The screw will operate in either end of the yoke, thus making the Instrument universal. Price, with one dozen Bands, \$2.00. Extra Bands, per dozen........25 cents.

The Miller Matrices.

Made by The S. S. White Dental Mfg. Co.

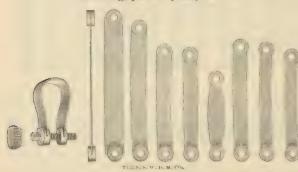
Patented October 19, 1886.





TATITICI	matrices,	Illick, per	200	9	 4-1-0
6.6	6.6	Thin, "		0	 2.25
6.6	6.6	Sanarately	each		 .25
		Separatery,	Caci		 3

In ordering, please specify as "Thick" or "Thin."



Loop Matrices.

From patterns by Frank Creager.

Dr. Creager's Loop Matrices comprise eight sizes of thin, flexible steel bars operated by a screw and key. One eye in each bar is smooth, the other threaded to fit the screw. Sufficient variety of size is afforded to meet any ordinary case. In use the screw is passed through the smooth eye into the threaded eye, and the Matrix tightened by means of the Key, which is the same as that used with the Guilford Matrices. (See page 252.)

Per set	of eight L	oops,	including Screw and Key	\$2.50
Loops,	separately,	each	-	25
Screw,	6.6	6.6		25
Key,	6.6	6.6		25

Dr. Brophy's Improved Band Matrices.

Patented July 20, 1886.



The range of sizes gives ample opportunity for the selection of a band proportioned to the size of the tooth to which it is to be applied, so that there is no need to use a large band on a small tooth and thus necessarily bend or "kink" the matrix at a sharp angle. The Matrices are strong and not liable to break readily.

Per set complete, 10 Bands, 2 Screws and 1 Key	
Bands, each	.15
Screws, "	.25
Key, "	.25

Dr. Louis T. Jack's Matrices.

This popular set of Hardened Steel Matrices are illustrated on page 186 in connection with Dr. Jack's set of Matrix Pluggers.

COLU FOIL

1-8.02

BULL FULL

1-8 CL

essentially a

MIL

"NE PLUS ULTRA."

ESTABLISHED 1828.

PURE GOLD FOIL,

SOFT AND COHESIVE,

IN ANY NUMBER DESIRED.

The "Soft" can be made cohesive by re-annealing.

& GUARANTEED TO BE & &

PURE, UNIFORM, TOUGH, DUCTILE, MALLEABLE.

J. M. Ney & Co. THIS Foil is not only one of the most POPULAR Foils on the market, but is one of the OLDEST brands in this country. For over half a century we have been manufacturing Gold Foil, and the best evidence of its giving ENTIRE satisfaction is found in the fact that the leading members of the Profession prefer it to all others.

Hartford, Connecticut,

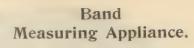
AND ALL THE

LEADING
DENTAL
DEPOTS.

PRICES:

$\frac{1}{16}$ OZ.				\$2.00
1/8 "				4.00
				7.50
1/2 "				15.00
Ι "				20.00

Untrimmed, \$1.00 per oz. less.



Made by H. D. Justi & Son. Invention of Geo. M. Weirich, D.D.S.

A neat instrument for taking correct measurements for bands. A piece of binding wire is placed in the instrument and adjusted around the root, giving the perfect measure of required band.

Price.....50 cents.

The Handy Dentimeter.

Made by The S. S. White Dental Mfg. Co.



Suggested by Dr. F. H. Abell.

Made only as a Cone-Socket Point. Price.....35 cents.

Exact Dentimeter.

Made by The S. S. White Dental Mfg. Co. Designed by Dr. E. C. Kirk.

To measure exactly the cervical circumference of a tooth or root, the two ends of a six-inch length of fine wire are put through the end holes of the Dentimeter to form a loop. Then, adjusting the loop around the tooth or root, with one hand push the small end of the Dentimeter against the root at the gum margin, and with the other pull the wire tight around the root-neck and wind both wire ends over the little knob shown in the cut. A few turns of the Dentimeter will twist the loop tight on the root; then unwind the wires from the knob and pull away the Dentimeter. Take off the loop, and with shears cut the twist close to the loop, which, when straightened, furnishes an exact measure of the band length required.

Exact Dentimeter, each......50 cents.

The Weirich Single Band Matrix.

Made by H. D. Justi & Son.

Patented Oct. 15, 1889.





As will be seen by the illustration, this is a simple band of metal with a loop at the end. It is the most easily applied, will fit any tooth, and cannot possibly injure the teeth.

The metal alloy of which the band is made is so composed and tempered that it

may be bent many times in the same place without breaking.

To apply the Matrix, place the band between the teeth, bringing the loop to the buccal side of the tooth to be operated upon; pass the other end through the loop drawing the band close around the tooth, then bend it sharply back on the loop and it will remain firmly in place.

To remove the Matrix merely reverse the movement, straighten the band and

slip it off.

It will be seen that this Matrix may be properly called the best, as it excels in simplicity of construction, facility of application, and perfectly secures the desired result.

Price, each.....50 cents.



This is a faithful representation of this beautiful preparation of gold as seen under the microscope. It represents a single layer of the gold as deposited by electricity. It is a picture of the active surface of the growing-up mass of crystals, of which Crystal Gold is entirely composed.

Why Is It?

One of the unexplainable things in life is that people should ignore the best things. Nobody can tell why this should ever be the case, but it is so in every business in the world.

There are dentists who do not use

Watts' Crystal Gold.

There are dentists who stick to Gold Foil, when day after day, for the last 40 years, many of the most distinguished and successful dentists in the world have been lavish in their praise of Crystal Gold.

There is no question about the purity of my Crystal Gold. It must be 1000 fine, or it cannot be manufactured in the shape in which it is sold.

Forty years ago I discovered the process of making Crystal Gold. Since that time the secret has never been revealed. Nobody else in the world can make it.

My advertisements must necessarily be addressed to those dentists who do not use Crystal Gold. Those who do use it need no urging to buy it.

Crystal Gold is soft and spongy. It penetrates every nook, corner and crevice with little force. It is easier to use and more certain as to results than foil. It never balls or crumbles. It excels in contour work. It saves time. "Time is money." A dentist can do more work with it and better work. It is always ready to use. When you want it, there is no rolling, folding or clipping.

All that is asked is a trial order. If it is good, buy more. If it isn't, don't buy more.

→ STRIP GOLD. ←



GOLD CUBES.







CIRYSTAL GOLD GUBEIN





-> SLICED GOLD -



New Forms of Crystal Gold.

Most Dentists are familiar with the old form in which Crystal Gold was sold. Within recent times I have introduced new and more convenient shapes. The above illustrations show these shapes. They represent the actual sizes. Some Dentists prefer the Strip Gold shown in the first illustration. Perhaps the Gold Cubes are the most used. Each Cube is barely joined to the rest. A mere touch will sever it. The operator can scarcely realize how convenient the Crystal Gold is in this shape until he tries it. The Cubes come in three sizes, and exactly what the Dentist requires is exactly what he can have. Those who prefer the Sliced Gold can also be supplied.

The above cuts, showing the plume-like, feathery form of the crystals forming the gold,

represent the new labels used on boxes containing Crystal Gold.

Crystal Gold is not the lowest priced gold for Dentists as far as first cost is concerned, but it is far and away cheapest when results are considered. Sold by all good dental depots, or it will be sent direct by me on receipt of price.

	1/8 OZ.	½ oz.	l oz.	2 oz.
"Crystal Gold"	\$4.00	\$15.00	\$29.00	\$56.00
"Crystal Gold Cubes"	4.00	15.00	30.00	******
"Crystal Gold Strips"	4.00	15.00	30.00	
"Sliced Crystal Gold"	4.00	15.00	30.00	

A. J. WATTS, P. O. BOX 1296, NEW YORK.

Sibley's Felt Gold.

is conceded by the profession at large, both in America and abroad, to be the most perfect and practical form of Gold ever offered to the profession.

This Gold has been paid one of the highest compliments possible by other manufacturers placing imitations on the market under various names, but there is an unapproachable something about it that other manufacturers have failed to obtain that has won for it a name and made it popular among the profession.

If you desire to save time and labor and improve the quality of your fillings, get a trial package and follow directions.

For contour work it is unequalled.

With Felt Gold you can make a denser filling in one half the time and obtain a perfect edge at the margin of the cavity.

It is easily manipulated and can be worked in conjunction with foil, if desired. Is easily started, packs closely to the walls of the cavity and will not ball up. Is worked with less waste than any other form of Gold. No special instruments required to work it.

Some have become so attached to it that they have said that if they could not obtain it, they would feel almost like giving up the profession.

If you have never used this form of Gold, try a sample package and you will find the above are facts, not fiction.

MANUFACTURED BY

GIDEON SIBLEY,

PHILADELPHIA.

CHICAGO.

Needle Foil Carrier.

The cut represents the full size of this useful instrument. It consists of a fine needle point, controlled by a spring with sufficient tension to hold it extended while picking up the Gold and carrying it to the cavity; by pressure, the Gold is then forced into position when the spring allows the needle to recede and free itself, leaving the Gold in place.

This Carrier was especially designed for Sibley's Felt Gold, but will be found to surpass anything heretofore used for this purpose with any form of Gold.

Price......\$1.50

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Nickolds' Improved Soft Gold Foil.

Nickolds' Improved Soft Gold Pellets.

The manufacturer claims in this special Foil to have developed in the highest degree yet known the peculiar excellence of Gold as a Dental Filling. It combines, in a greater degree, the softness and adaptability of sponge gold, with a condensing and cohesive quality unequaled by any adhesive gold, and it is conceded by the best operators to manipulate more easily and with better results than any foil extant.

Warranted absolutely pure, 1000 fine.

CHEMICALLY PREPARED AND MANUFACTURED ONLY BY

ALFRED J. NICKOLDS,

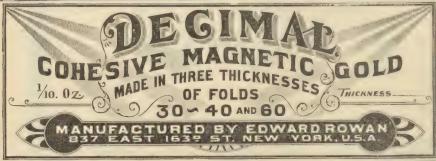
347 Gates Avenue,

Brooklyn, N. Y.

PRICES.

8.1	Ounce\$	4.00
$\frac{I}{2}$		15.00
I		30.00
2 (Ounces at one time, per oz	29.00







Untrimmed Gold Foil, Cohesive, Nos. 3, 4, 5 and 6 Untrimmed Gold Foil, Soft, Nos. 3, 4, 5 and 6,

1-10 CZ. \$ 2 90 16 3.50 1 27.00 10 02. \$ 3.50 1 15.00 1 15.00 1 10ts at \$28 00 per 02.

The Facts in the Case.

I have been making Cohesive and Soft Gold Foil for 40 years. It is the one business I know best in all the world. My whole life has been devoted to just that and nothing else.

There is no known way to make a better article than I make. Absolutely pure gold (1000 fine) is always used. There is only one grade of

Kearsing's Cohesive and Soft Gold Foil,

and that grade is the best. There are dealers who charge more than I charge, but their dental foils are no better. They can't be. The dentist who buys of them pays an unnecessary profit. I know of cases where these higher priced foils are decidedly poorer in quality than mine.

You can buy Gold Foil for less than my prices, but you pay dearly in the long run. You pay for it in unsatisfactory work. You pay for it by losing future business through dissatisfied patients.

My Cohesive and Soft Gold Foil is especially valuable for small cavities, for fine work, for contour operations, for restorations.

Its great cohesiveness comes from its absolute purity.

My goods are used all over the world. Here in America they find favor with many of the leading dentists.

No dentist can afford to use anything short of the best Foil. The very best dentists are asked to try mine.

Send orders to publisher of this Catalogue.

PRICES.

1/8	ounce	\$	3.75
1/2	6.6	I	4.00
T	4.4		8.00

Extra fine and tough Tin Foil and Amalgam with extra edge strength are also made by me.

E. KEARSING,

101 HOYT STREET,

BROOKLYN, N. Y.

P. O Box 182.

Miscellaneous Gold Foils.

Our stock of Gold Foils is probably as complete as any in the country. It couldn't be any more complete because we carry every sort our customers will use. It doesn't make any difference who makes it. We make a specialty of the grades we have given prominence on preceding pages, but our stock of those listed on this page is just as complete.

Hood & Reynolds' Gold Foil.

Soft, cohesive, non-cohesive, chrystalline surface, unannealed, folded.

ers.

Gold Tray.

Made by The S. S. White Dental Mfg. Co.



For keeping different forms of gold filling materials handy for selection. It provides compartments for an assortment of mats, pellets, cylinders, ropes or strips.

The Tray is nicely gotten up, with a snug fitting case. The partitions are covered with gilt paper, and the bottoms lined with soft chamois. Slid into the case, the Tray is protected from the entrance of dust or the loss of its contents, and occupies only a little space (about $4\% \times 3\frac{1}{4} \times \frac{1}{2}$ inch) in the Bracket Table drawer.

The price is a mere bagatelle for the convenience. Price, 25 cents.

Globe Gold Foil...

Trade-Mark Registered March 25, 1873, No. 1184; and July 3, 1894, No. 24,940.



Varieties:

Non-Cohesive, or Soft.

Exceedingly soft; yields readily under the instrument, without "balling;" heating develops cohesiveness.

Semi-Cohesive.

Meets the needs of those who require greater cohesiveness than can be developed by heating the Soft foil, but not the highest possible degree of that quality.

Extra=Cohesive.

May be worked cohesively in the form of pellets or ribbons; heated, becomes exceedingly cohesive; unusually soft under the burnisher.

For sale in Numbers 3, 4, 5, 6, 8, 10, 20, 30, 40, 60, and 120.

1/8	ounce			\$4.00	PRICES	2 ounces at one time, per ounce, \$28.00 5 " " " " 77.50
/2	6.6			29.00	IMOLO	13

The S. S. White Dental Mfg. Co.,

PHILADELPHIA,

NEW YORK,

BOSTON,

CHICAGO,

BROOKLYN,

ATLANTA,

BERLIN (GER.)

Pack's

Gold Cylinders.



4

Varieties:

Soft Crystal Foil Cylinders.

Soft Crystal Loose=Rolled Cylinders.

Semi-Cohesive Crystal Foil Cylinders.

*Semi-Cohesive Crystal Loose-Rolled Cylinders.



Each of these varieties is put up in ½ oz. boxes (Nos. ¼, ½, ¾, r, 2, 3, 4, 5, and Assorted) in a manner calculated to preserve the Gold unimpaired for any length of time.

*This variety is made of a medium Cohesive Gold, very loosely rolled. The gold is so finely tempered that after annealing it retains the softness which is considered so desirable by some operators.

The S. S. White Dental Mfg. Co.,

PHILADELPHIA.

NEW YORK,

BOSTON,

CHICAGO,

BROOKLYN

ATLANTA,

BERLIN (GER.)

Crystal Mat Gold.

Made by The S. S. White Dental Mfg. Co.



Crystal Mat Gold has made its reputation because of its purity, its plasticity, its cohesiveness, its rapid qualities and the strength and tongues of the fillings made with it.

Like every other strongly individualized preparation, it has its characteristic peculiarities—the qualities which distinguish it from the ordinary. Thus, some ways of working it give better results than others; one way the best of all. That is the way it should be worked, and that is the way pointed out with every box of Crystal Mat sold. Worked in this way it is as one of its admirer save "a dream in gold." way, it is, as one of its admirer says, "a dream in gold." PRICES

		TRICED.	
1/8	OZ.	z. \$ 4.00	0
1/	6.6		0
/2	6.5		
1		30.00	0

H. D. Justi's Gold Cylinders.

This Gold is recommended to the profession with the utmost confidence, knowing that the one who gives it a trial will need no further proof of its excellence.

As all reputable manufacturers of gold for filling endeavor to make their preparations absolutely pure, we do not claim that Justi's Foil and Cylinders are more pure than the preparations of others, but we claim that having made them perfectly pure, this standard is maintained, and the product will always be found of a fine quality.

Soft Numbers, ¼, ½, 1, 2, 3. Cohesive Numbers, ¼, ½, 1, 2, 3. Semi-Cohesive, ¼, ½, 1, 2, 3.





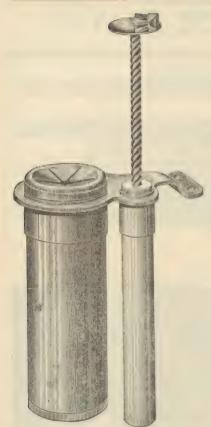
PRICES.

1/8	ound	e				\$ 4.00
1/2	6.6					15.00
I						30.00
In	lots	of 2	OZ. O	r more,	per ound	e, 29.00

Gold Trays.

The cut is full size; made of black rubber, and very useful for the different sizes of gold pellets.

Price, each.....25 cents.



Roberts' Cotton Pellet Roller and Waste Cotton Holder.

Made by The S. S. White Dental Mfg. Co.

The Roller is operated by pressing a wisp of cotton on the cylinder, which revolves, and the pellet is made. A simple yet effective device. Makes a better pellet than can be made in the fingers and in a fraction of the time.

The Waste Holder is a valuable adjunct. There ought to be a place for waste cotton. This is the best sort of a place. Inside there is a hollow glass cylinder, open at one end. In the cylinder the pellet is disinfected and all odor destroyed.

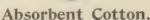
The combination sets off the bracket-table as shown herewith, so that besides being an effective addition to the operating outfit it is ornamental. Don't buy it for its ornamental qualities, but because it will help you to do better work quicker. It is out of the way, but always at hand.

Roberts Cotton Pellet Roller	
Waste-Cotton Holder	1.75
Roberts Cotton-Pellet Roller and Waste-	
Cotton Holder	3.00

Cotton Holder.

A spring forces the cotton against the orifice, hence it is always ready for use. The Holder is sufficiently heavy to retain its position on table.

Price, each......70 cents.



We have a pure and clean Cotton in packages of two ounces each. This Cotton is free from oil and all foreign matter.

Price, per package......20 cents.

Absorbent Cotton in Asceptic Containers. Made by The S. S. White Dental Mfg. Co. Price each......30 cents.



Best Quality.—Put up in books ranging from I to 40.

Dr. G. B. Richmond's Cotton Dental Pellets.

These Pellets are made in four sizes, and of the finest absorbent cotton. They will be found a great convenience to the operator, saving the time required to prepare pellets in the usual way. Put up in packages containing the four sizes, assorted.

Boxes containing 8,000 to 10,000 Pellets.....each, \$0.25 about 5,000 Pellets.....

Dr. W. H. Duddy's Napkin Holder and Clamp.

This appliance is made specially for carrying napkins made of Cottonoid, and is designed principally for use on the posterior portion of the inferior maxilla while inserting temporary fillings or treating teeth; although it can be used advantageously on the superior maxilla also. Price......40 cents.

Absorbent Cotton Rolls.

Made by H. D. Justi & Son.



This very neat form of Absorbent Cotton is found to take the place of napkins and the ordinary cotton in examinations and in brief operations. They can be used anywhere in the mouth and are always clean and fresh.

These Rolls are made 11/2 inches and 6 inches long, and in four thicknesses of 1/4, 1/2,

34, and 78 inch diameter.

Bibulous Paper. OUR OWN IMPORTATION.

There are no particular claims to make regarding this stock. It is the very best we can buy. We import it ourselves and buying in the quantities we use are always assured of having the best.

French, per	quire\$0.	15
66 66	ream	40
lapanese ''	100 sheets.	25
66 66	EO 11	
66 66	1000 ''	

Spunk.

Money can't always buy the choicest spunk, but we are particular about this stock and always have the best the market affords. We buy in large quantities and scour the country to find stock that will pass our inspection. We always find it.

country to find stock that will pass our inspection. We always find it.

Selected, the very best, per oz., \$0.35

Ordinary, as it comes, '' '' 20

in bulk '' lb., 2.25

Cottonoid.

Comes in sheets and may be used in examinations, etc., as substitute for napkins. This is a standard preparation of great value. It is more economical to use Cottonoid than to launder napkins.

Price,	per pound	package,\$1.00	5
6.6	" ¼ poi	and package	5

Paper Fibre Lint, Parker's.

BEST ABSORBENT KNOWN.

Made of perfectly new and clean fibre, no rags or foreign material being employed. All the resinous, oily, and acid matters are effectually gotten rid of, leaving only the pure, absorbent, live fiber, which is superior in absorbent power to lint made of flax.

Price, per box......50 cents.

Melotte's Moistening Pad and Holder.

Moistening Pads, per box40	cents.
Holder60	6.6

The Standard Dental Alloy

From a small beginning, based on a course of scientific experiment, has grown steadily into favor

ON THREE CONTINENTS,

less by commercial pushing, or by liberal advertising, than by

INTRINSIC MERIT.

Fine Grain

Rapid Solidification

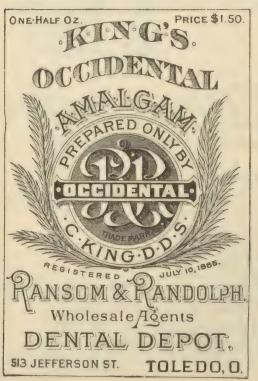
Homogeneous.

Specially adapted for Building and Plyoting.

PRICE.		
Per ounce		\$6.00
Per half-ounce		3.00
Put up in ounce bottles, or in half-ounce bottles or	envelop	es.
QUANTITY RATES TO DENTISTS.		
Three ouncesper	ounce,	\$5.50
Five to nine ounces	4.6	5.00
Ten ounces and over	6.6	4.75

ECKFELDT & DU Bois,

P. O. Box 995, PHILADELPHIA, PA.





None genuine unless bearing upon the reverse side of wrapper the following fac-simile signature.

Rausom & Randoeph

PRICE

Per ounce\$	3.00
Two ounces	5.50
Four ounces	10.00



Justi's Gold and Platinum Alloy.



For durability, density and making strong edges it is unexcelled.

Justi's White Alloy.



This Alloy is of fine grain, makes a very hard filling, capable of high finish, which, with its light grayish color, it has perfectly retained under the many tests to which it has been subjected.

Price,	Justi's	Gold	and	Platinum	Alloy	·	er 1	OZ	\$ 3.00
6.6	"	6.6	6.6	6.6	"	^·	" 2		5,50
6.4	6.6	6.6	6.6	6.6	6.6		66	66	IO 00
4.4	6.6	Wh	ite A	11ov			"		4.00
6.6	6.6			"		*************************	66 2	6.6	7.50

Sibley's White Alloy.

After a series of long experiments we have at last obtained the Whitest Alloy at the present time on the market.

We have not tried to get an Alloy as white as others, but to obtain one that is much whiter than all others, which result we have accomplished, making it preferable for use in front teeth.

This Alloy is free from cadmium and other inferior metals, and is made of nothing but chemically pure materials, and it is unsurpassed in edge strength.

If looking for an A No. 1 White Alloy, give Sibley's a trial, and you will be pleased with the result.

Put up in $\frac{1}{2}$ oz. and 1 oz. bottles.

PRICES.

1	OZ	\$ 3.00
2	ozs	5.50
4	ozs	10.00
10	0 ozs	22.50

MANUFACTURED BY

GIDEON SIBLEY,

PHILADELPHIA.

CHICAGO.

Sibley's

Gold and Platinum Alloy.

This Alloy is becoming more popular every day. A trial will convince you of its superiority over all others. Below is a fac-simile of the reading matter on our envelope.

It a Trial and Be Convinced of Its Superior Merits.



This Alloy When Once Used Is Always Used

I claim for my Alloy that it will never **shrink**, **discolor** or **expand**. It requires a little more time to amalgamate on account of the large proportion of precious metals in its composition.

Once in use, you will never have any other.

GIDEON SIBLEY,

Dental Depot,

PHILADELPHIA.

CHICAGO.

"One thing is forever good; That one thing is Success."

-Emerson.



1 oz., \$3.00 4 oz., \$10.00

Caulk's Filling Materials.



Contains 5 ounces in Filings.



Contains 5 ounces in Shavings.

I WAS THE FIRST ONE

To make an Alloy containing Gold and Platinum, with one exception. I made it first to supply my own needs in the practice of dentistry and because there then existed nothing of a quality to meet my demands. Since then the marked merits of

CAULK'S PAR-EXCELLENCE ALLOY

Have made it one of the staple articles in well-equipped dental establishments all over the world. Nobody has ever made anything to equal it. It is absolutely correct in its proportions and is remarkable for its extreme density and malleability. Its edge strength is excellent. Be wise enough to refuse substitutes.

PRICES.	Per Ounce.
Caulk's Par-Excellence Alloy (Gold and Platina)	\$3.00
In $\frac{1}{3}$, $\frac{1}{2}$ and I oz. Envelopes.	
Two ounces for \$5; five ounces for \$11.	
White Alloy (for front Teeth)	4.00
In ¼, ½, and I oz. Envelopes.	
Two ounces for \$7; 5 ounces for \$15.	
Superior Amalgam	2.00
In ¼, ½ an 1 oz. Envelopes.	
Three ounces for \$5; five ounces for \$7.50.	

L. D. CAULK.

Office and Salesroom, 1219 Arch Street, PHILADELPHIA, PA.

LABORATORY, CAMDEN, DEL.:

Dawson's White Alloy.

It contains the five essential elements for good color and edge strength. All who try and observe, continue to use.

There is no more discoloration to this Alloy than there is to gold. There is no perceptible shrinkage or change.

In all respects as reliable as gold, and makes a very sightly filling, being nearer in harmony with the tooth color than any other metal filling.

PROPERTIES PECULIAR TO THIS FILLING MATERIAL.

A grey white color being more in harmony with tooth color than any other metal filling.

It is malleable, which permits it to be malleted into fissures, crevices, interstices, and gives to it the greatest edge strength.

It is dense, which enables it to take and retain a hard and smooth surface, thereby resisting corrosive agents.

Put up either as filings or shavings, in glass-stoppered bottles, with manufacturer's name and name of Alloy blown in each bottle, and Dr. Dawson's signature on each label.

One-	fifth o	unce,	Т	ro	y	(sa	am	ple	e)	 	 	 \$ 1.00
One o	ounce,	Troy								 	 	 . 5.00
Two	6.6											
Five	6.6	6.6								 	 	 . 20.00
Ten	6.6	6.6								 	 	 37.50





Rowan's Extra White Alloy.

Retains Color in all Mouths. Grain is Fine. Edge Strength Good.

Very Hard, Permanent, Resists Corrosive Agents.
Superior in Quality, A White Alloy
That Retains Color.

Every dentist who has used it is pleased to see the fillings bright in the mouth years after the operation.

Rowan's Extra White Alloy

Is preferable to gold in some cases; its light color approaches that of the teeth. Put up in glass bottles containing I ounce and ½ ounce, as per cut. Look for name blown in bottle and accept no other. Supplied also in $\frac{1}{7}$ ounce sample envelopes.

For sale through reputable dealers everywhere

and by the manufacturer.

PRICES

$\frac{1}{5}$ -ounce	(sample) 1.00	,
I "	5.00	,
2	9.00	
5		
10	37.50	
20		

Manufactured by JOHN ROWAN,

DENTAL DEPOT.

310 and 312 N. 11th St., St. Louis, Mo.



HIGH GRADE ALLOY.

Lee S. Smith & Son,

MAKERS, -

No. 524 Penn Avenue, PITTSBURG, PA.

There's a whole story told in this label. A story of thirty years of experiments. There is in the package the result of these experiments.

There isn't any whiter Alloy made. There isn't any made with better edge strength. It is the edge strength that is making the reputation of this Alloy.

An unconditional guarantee is back of it. A guarantee to refund the price if it doesn't fully meet the expectations of any man who tries it.

PRICES.

One	ounce				*****	 	 	 	 	\$:	3.00
Four	rounces	at	one	time.		 	 	 	 	I	0.00

Phillips' White Alloy.

Made by The Buffalo Dental Mfg. Co.

Made from Chemically Pure Materials.

Will not Shrink or Discolor.

Edge Strength Unsurpassed.

We have never sold an amalgam that has given such universal satisfaction as Phillips' White Alloy. As an evidence of its popularity, we would state that the sales of the White Alloy exceed by many hundreds of ounces that of any other Alloy we ever handled. A trial is sure to convince any one that it is AS NEAR PERFECT as any Alloy made, and we have enough confidence in it to recommend it to the profession without reserve.

Dr. Welch's Gold and Platina Alloy.

This tooth filling has become so well known that a minute description is unnecessary. Perhaps some, however, will be interested to know how it came to be.

"What is needed," said a chairman of a committee before the New Jersey Dental Society twenty years ago "is an amalgam that neither shrinks nor swells, and is so hard and fine grained that it will take a nice polish and have a fine, strong edge strength." "Your committee," the chairman went on to say "finds none bearing these tests among the numerous samples they have been able to collect, and believe there is none made. A man that can bring out such an amalgam will make his fortune and confer a lasting benefit on the profession."

"Here is my opportunity," thought I; and without saying a word I came home determined to make a combination of metals that should constitute such a filling. melting together many alloys of various metals, I fortunately hit on the combination of gold, platina and silver in such proportions that, with tin as a flux, met these requirements. Three months before the next State convention I gave away one-quarter ounce samples to most of the leading dentists of the State. The unanimous report of these at the next meeting was that, so far as they could judge from its manipulation and behavior, it was quite superior to anything they had before used. I then gave away twenty-five ounces to leading dentists in New Jersey, New York and Pennsylvania, and waited another year's report. Meantime I sold about two hundred ounces. At the next New Jersey meeting I was awarded such a flattering resolution of commendation for my effort and its result that the sales were increased to over four hundred ounces. One thing was against it. Before this, dentists were in the habit of buying their amalgam for from one to two dollars an ounce, and they were accustomed to believe that there was so little difference in their quality that "the cheapest was the best." It was impossible to produce mine for less than three dollars an ounce, and none but the best dentists thought they could afford it. At first I expected to sell it only directly to the dentists. When I found it necessary to sell it largely to them through dental dealers, it was impossible to give them the large discounts they obtained from common amalgams, so that it was years before I sold large quantities. Dealers would sell it only when they were obliged to. This is somewhat so to this day. And I do not complain of these dental dealers; for it is natural for them to give preference to makes which give them the greatest profits; and it seemed difficult for me to raise the price of the alloy. But, in spite of this serious drawback, I suppose I now sell more than any other manufacturer of either alloy or amalgam. It certainly seems to stand the test of long and varied experience. My amalgam is pure silver and tin in the proportion to give the best possible results.

T. B. WELCH.

PRICES.

DR. WELCH'S GOLD AND PLATINA ALLOY.

I	ounce	troy	7	\$ 3.	.00
2	6.6			5.	.50
4		6.6		10.	.00
10	6.6	6.6		23.	50

DR. WELCH'S AMALGAM.

I	ounc	e\$2.00
2	" "	3.75
А	6.6	7.00

Alloys Made by The S. S. White Dental Mfg. Co.

Globe Alloy.

Long and favorably known to the profession. A standard article. Rich in gold and platinum. Quality always the same. Put up in filings or shavings. Filings will always be sent unless order specifies otherwise.

Globe	Alloy,	Shavings	or Filings,	per	ounce	 	3.00
6.6	4.4	"					
6.6	6.6	6.6					
6.6	6.6	6.6			IO		23.00

Alba Alloy.

Makes a white amalgam which stays white. Possesses all the other desirable qualities of the best amalgams. Contains no Cadmium or other objectionable material. Strong edged, non-shrinking, very hard and will take very high polish.

Alba	Alloy,	per ounce			3.00
6.6	6.6	2	ounce	lots,	5.50
6.6	6.6	4	6.6	6.6	10.00
6.6	6.6		66	6.6	23.00

Splendid Alloy.

Amalgamates readily with a minimum quantity of mercury. The amalgam is plastic, fairly quick setting and so strong edged and metallic that it will spread under the pressure of the burnisher, and will not clog the file in finishing.

Splendid	Alloy,	per ounce			3.00
- 66	6.6	2	ounce	lots.	5.50
6.6	6.6	4	6.6	66	10.00
6.6	6.6	10	6.6	6.6	23.00

Arrington's Amalgam.

Formula of Dr. B. F. Arrington. Has been on the market for 35 years. It is well and favorably known. A never failing demand is the best testimony to its worth.

New	Amalgam,	per ounce	2.50
	6.6	4 ounces,	
6.6	6.6	Io	20,00

Lawrence's Amalgam.

This Amalgam has received the endorsement of the dental profession at large for over forty-four years, which would seem to render any remarks as to its excellence superfluous.

Lawrence's		per ounce\$ 3.00
6.6	6.6	2 ounce lots, 5.50
	6.6	4 " 10,00

Dr. J. Foster Flagg's Alloys.

Sub-marine, Contour and Facing. Prepared under the supervision of Dr. Flagg and sold with his personal guaranty as to quality.

Sub-marine Alloy	oer	ounce,	\$2.50
Facing Alloy	6.6	6.6	2.50
Contour "	6.6	6.6	3.50

Townsend's Amalgam.

Made from the old formula of Dr. Townsend; is an excellent Amalgam, and has a large sale. Put up in ounce and half-ounce envelopes.

I	ounce	\$2.00
		3.50
5	"	7.50
TO	6.6	

Holmes' Star Amalgam.

A High-Grade Gold and Platinum Alloy, favorably known for its strength of edge, density, brightness of color and non-shrinking qualities.

Price, per ounce		.00
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Copper Amalgams.

The S. S. White Copper Amalgam.

The S. S. White Copper Amalgam has amply verified the claim made for it when first put upon the market, namely, that it was "superior to most and fully equal to the best of its predecessors."

Put up in 1 ounce boxes.....per ounce, \$1.00

Miscellaneous Copper Amalgams.

Ames' (½ oz.	and I oz.	pkges)per ounce,	
Dawson's "		4 oz. or more	1.25



Glass Mortar and Pestle

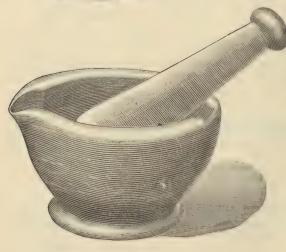
For Mixing Amalgams.

Made by Buffalo Dental Mfg. Co.

These are the genuine Fletcher Mortar, made of glass, ground inside and on end of pestle. Size, 13/4 inches outside diameter, 11/2 inches high. Pestle for firm holding, 41/2 inches long.

PRICE.

Fletcher's Mortar and Pestle....5oc.



"Every Day" Mortar & Pestle.

Made by The S. S. White Dental Mfg. Co.

Simply a thick, strong wedge-wood Mortar and Pestle.

Price, each.....35c.

Heating Spoon.

For copper amalgam. Made of steel and adapted to any of our Cone Socket handles. The No. 10 form, shown on page 141, is recommended. Price, each 25c.





This is conceded to be the most popular dental Cement yet produced. The manufacturer is a chemist who, for many years, has not only carefully analyzed the various cements on the market, but by thousands of original and systematic trials has qualified himself to offer the profession a Cement which they can use with full confidence that it is the best they can obtain.

It works very smooth and sticky, possesses great adhesiveness, sets extremely hard and continues to harden for weeks and even months after inserted in the mouth, and resists to the greatest degree the chemical action of the oral fluids.

Price, per box.....\$1.50

Caulk's Filling Materials.

"A WEB CAREFULLY WOVEN"

Is an expression that you so often hear, and one which no doubt causes you to stop and think that there has been an unusual amount of ability displayed in its formation. Such is always the case.

FOR THE PAST TWENTY YEARS

I have been carefully weaving a web around this magnificent world of ours, for the sale of my materials, until it now covers twenty-two countries, and

Caulk's Alloys, Cements and Gutta Perchas

Are familiar words on the "tip of the tongue" of every progressive practicing dentist.

NOW WILL YOU KINDLY ALLOW ME TO ASK YOU A QUESTION?

Wouldn't you consider this test of twenty years before the world a sufficient guarantee to warrant a trial from every dentist who has not used my Specialties?

L. D. CAULK, MANUFACTURER.

OFFICE AND SALESROOM,

LABORATORY,

No. 1219 Arch St., Philadelphia, Pa.

Camden, Delaware.

All of Caulk's Filling Materials sold by troy weight and sent by mail.

Caulk's Filling Materials.



EVERY DENTIST

knows the uses of cement and the time and place to use it. Almost all dentists know which is the best cement, and almost all of them use it. Twenty years ago I made my first dental cement. From time to time since then I have found it possible to make some slight improvements in it, and to-day it stands unequalled.

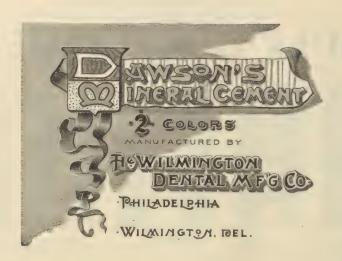
CAULK'S DIAMOND CEMENT

is recognized everywhere as fulfilling all the requirements of a perfect cement. It is an invaluable tooth saver. It hardens the dental tissue with which it comes in contact, and is very useful in strengthening weak walls previous to the introduction of metallic fillings. In some cases it may be used as a permanent filling. It is non-irritating, and is non-conducting, and is extremely valuable in crown and bridge work. Don't believe the man with "something just as good as Caulk's." Imitations only prove the value of the real.

CAULK'S CEMENTS.	Per Package.
Diamond Cement (1 color), 2 bottles	\$1.00
(Gray, Yellow, Medium, Light or Gum, with Liquid.)	7 50
Diamond Cement (2 colors), 3 bottles(Gray and Yellow, with Liquid.)	1.50
Diamond Cement (4 colors), 5 bottles	2.00
(Gray, Yellow, Medium and Light, with Liquid.)	
Diamond Cement (1 color), 2 bottles	1.50
(Yellow, with Liquid. For Crown and Bridge Work.) The Powder (any color) and Liquid of Caulk's Diamond Cement sold separately at 50 c	ents per bottle.
CAULK'S GUTTA-PERCHAS.	Per Ounce.
Diamond Point Stopping	
Diamond Point Stopping (Pellets)	2.00
Diamond Point Stopping (Cylinders,)	2.00
Amalgamated Gutta-Percha	2,00 Per Box.
The above is put up in ¼, ¾ and 1 oz. Packages. Temporary Stopping.	50
Gutta-Percha Points (for filling Roots)	
All of Caulk's Filling Materials sold by troy weight and sent by	

L. D. CAULK.

Office and Salesroom, 1219 Arch Street, PHILADELPHIA, PA.
LABORATORY, CAMDEN, DEL.



In the preparation of Dawson's Cement nothing is left undone that will by any means improve the object desired—a perfect cement filling. All the materials are the best, and are pure and clean. The compounding is done by practical chemists; the result is known to be the best Cement now offered to the profession.

For years it has been demonstrated by practical workers in plastic fillings that Dawson's Cement is unexcelled, in that it makes a dense filling with a very hard and smooth surface. By crown and bridge workers it has been proven to be the most valuable plastic for such operations, being the most instructible.

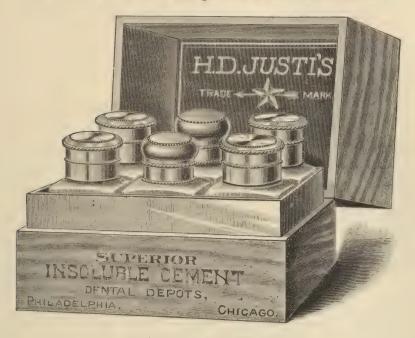
It stands all the tests for a good Cement, hardening quickly, the surface glazing at once, the filling having a porcelain-like feel, and losing its acid taste in half an hour. Experience has proven that it stands the test of time in a satisfactory manner. The liquid is prepared in such manner that it stands climatic changes and age, being the most reliable in this respect. Yellow and gray powders are furnished from which any necessary combination may be made. Dawson's Cement is put up in bottles, in which are blown the name of the cement and the manufacturer's name, and put up in a package enclosed in an engraved label, of which the cut is a fac-simile. Dr. Dawson's signature is on each package.

PRICES.

Sample 1	packa	age, one o	color		 	 .\$1.00
Medium	size	package,	two colo	rs	 	 . 1.50
Large	6.6	£ £	. "		 	 . 2.50

In lots of one dozen at a time, a discount of twenty per cent. from these prices.

H. D. Justi & Son's Superior Insoluble Cement.



FACTS ABOUT CEMENT.

No dentist ever got good results when he did things wrong.

No dentist will be satisfied with Justi's Insoluble Cement if he neglects to mix it right.

But the dentist who mixes the powder and liquid like the directions say, will find Justi's Insoluble Cement really, actually, absolutely insoluble.

He will find it becoming harder as time passes.

He will find that old fillings can be removed only by using the hardest tempered and sharpest instruments.

He will find the hardening so rapid that it is unnecessary to remove the rubber dam before finishing.

It is the best that money will purchase. That's the whole story.

Send orders to any dental depot or to us direct.

PRICES.

ı oz. Box,	4 colors	and	2 bottles Liquid	\$3.00
1/2 oz. "	ı color	4.6	ı bottle Liquid	1.50
1/2	2 colors	3 ' 4	I,	1.50

H. D. JUSTI & SON,

PHILADELPHIA.

CHICAGO.

Dr. Welch's Phosphate of Zinc.

This oxyphosphate was brought out under interesting circumstances.

"Doctor," said an agent of a well-known dental supply house, as he opened my office door to leave me, after selling me some dental goods, "I have a little piece of paper here I have puzzled my brain over till I am tired. An eminent chemist gave it to me as a detailed description of the ingredients of a tooth. Take it and see what you can do with it." This was more than twenty years ago. I did take it, and I racked my brain and employed my time, every spare minute I could give it from work or sleep, till I brought from my furnace a powder which, mixed with a strong acid, gave me what I called "Artifical Dentine." After a year or more I placed it in the hands of fellow dentists and advertised it. I cannot say I was the first to produce this filling. Drs. Pierce and Flagg, both of Philadelphia, were working in the same direction at the same time, unbeknown to me or to each other, and each of us was successful. And there were others in Europe seeking the same end, and who did nicely. Who, then, shall we say was the originator? For many years there was quite a differnce in their character. Now these first makes and those brought out since are much the same. Nearly all are good. Each dentist has his favorite.

T. B. WELCH.

PRICES.

Medium	size,	\$1.00
Large		or powder separate.
Large b	ottle	75C.

Sibley's Insoluble Cement.

This Cement is not an experiment, but it is one that has been in the hands of some of the best men in the profession for months, with excellent results.

It has been tested as to its resistance to acids and alkalies and stands the test better than any of the best known cements on the market at the present time.

It will be found regular at all times, will work in any temperature and does not deteriorate with age.

The fluid accompanying each package will not crystallize nor cloud, but remains clear and ready for use at all times.

It is much harder than the hardest German, French and American cements at present on the market.

The colors, also, will always be found uniform.

We are confident a trial will convince anyone as to its superior quality.

It is made in four colors, enabling the operator to produce any variety of shades to match the patient's tooth.

No. 1, light. No. 2, medium. No. 3, yellow. No. 4, blue.

PRICES.

		2.00	
4	6.6	3.00)

All powder bottles contain ½ oz. of the powder, and the fluid bottles enough fluid to mix the same.

With each 4 color box we enclose 2 bottles of the fluid.

This Cement is guaranteed to be harder, less soluble and superior in all respects to any German, French or American cement.

If it does not prove so, return it.

MANUFACTURED

GIDEON SIBLEY.

PHILADELPHIA.

CHICAGO.

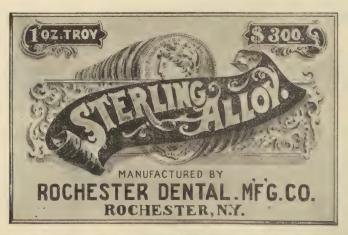
SENSENT GENTE

Large package, containing five glass-stopper bottles, four shades of Powder

and one bottle Liquid.

This Cement has justly earned its high reputation and standing, for the fact that it becomes the hardest in the mouth, is very dense and fine texture, takes a high polish, is not easily affected by the acids of the mouth, is non-irritant and non-conducting. Especially valuable for filling pulp cavities and lining cavities filled with amalgam. This also makes one of the very best Cements for crown and bridge work.

Price, large package, five bottles......\$2.00



For more than twenty years this Alloy has been used by the dental profession, all over the United States, with such success and general approval that we would not think of mentioning its merits or advantages to any who have used it, but to new comers we have this to say, and will furnish a sample to prove the facts if requested: It has the greatest edge strength, holds its color perfectly in the mouth, does not shrink or expand, and works very plastic and smooth.

Price	per	I C	z.,	\$3.00
6.6	6.6	5	6.6	IO.00
6 6	6 6	IO	6.6	18,00

H. D. Justi & Son's "Acme" Cement.

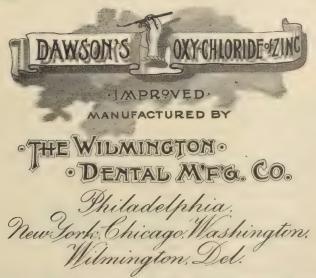


It is manufactured under their personal supervision, wherefore they can guarantee its uniformity in quality and its durability; it is free from all such substances that produce but a temporary hardening, readily destroyed by the secretions of the mouth. It combines all the cardinal properties a cement should possess, does its work unerringly, complete and is lasting.

They also claim originality in the bottles; the stopper, formed in the shape of a bowl, (as illustrated in cut,) is intended for the manipulation of the cement, and for carrying the same to the mouth; this is very convenient for the operator.

Furnished in two colors; No. 1, a soft medium yellow; No. 2, a soft medium gray. These the most particular operator will find sufficient for the various cases presenting themselves.





Oxychloride of zinc is not recommended for permanent filling, but as a temporary filling in certain cases it may be very valuable, provided it is used with care and judgment. It has also been used with success in filling pulp cavities. Its most successful use, and one which is recommended, is that of lining cavities. By lining with oxychloride are secured the following results, viz.: (I), Exemption from further decay; (2), Maintenance of color, improvement of color in discolored teeth, and prevention of discoloration from other filling materials; (3), The securing of a solid support for amalgam, when gutta-percha is used as a non-conducting pulp protector, or guard for cervical edge of cavity; (4), As a strengthener of frail walls while treating the tooth.

Price, per package.....\$1.00

Cements.

Made by The S. S. White Dental Mfg. Co.

Weston's Crown and Bridge Cement.

SETS UNDER WATER WITH A GLOSSY SURFACE.

This Cement was devised especially to afford a reliable lute for setting Crowns, Bridges, Porcelain Inlays, and Regulating Bands, not for filling teeth generally; but is useful for filling sheltered and accessible cavities in labial and buccal surfaces, and as a basis in composite fillings; and it has been found so satisfactory, because it sets dense quickly from a very thin mix, in cavities which will not bear the pressure required with other cements, that its users have voluntarily recommended it for that purpose.

Dentos, a New Dental Plastic.

The Dentos Powder contains no zinc oxid, but has for its base aluminum oxid, which, after being carefully incorporated with other chemically pure constituents, is subjected to a very high white heat without fusing the mass. This results in minute crystals of almost the hardness of Carborundum. The base of the Dentos Liquid is not the common glacial acid, and is not subject to the uncertainty and annoyance of crystallization.

Dentos is an Aluminum-Phosphate Plastic—the first of its kind in the field, and when

Dentos is an Aluminum-Phosphate Plastic—the first of its kind in the field, and when properly mixed, makes a dental plastic which hardens in three minutes. Its hardness after a few hours is phenomenal, while its resistance to dental attrition and the action of stomatic

fluids is, so far as we know, unequalled.

TATCHO.	
Regular package.	2.00
Four colors, each	
Sample	

Weston's Xenolite Cement.

It is under as perfect control as amalgam or gutta-percha. Is not affected by climatic or atmospheric conditions. Works at any temperature.

Packs like gutta-percha, leaving a smooth and glossy surface. Burnishes and polishes like gold, with a finish resembling enamel.

Affords the greatest resistance to the fluids of the mouth ever attained by a cement.

Is harder and stronger than the best German preparations.

Does not deteriorate with age, and wears smooth and glossy in the mouth.

Prepared in three colors—gray, ivory, and brown. Full instructions accompany each package.

New 11/3 oz. Color Package,	containing	
2 bottles Gray Powder		
	}	Price \$2.25
I "Brown "		
	Ivory, Brown	" 1.25

Baldwin's Hydraulic Cement.

This Cement is of the zinc-phosphate class, and in the qualities of plasticity, adhesiveness to cavity walls, and density, grades high. Its relative durability is also remarkable, and in favorable mouths and situations it may be deemed reasonably permanent. In all cases, when mixed, packed and finished in the manner and under the conditions prescribed, the fillings will prove satisfactory to every dentist of experience in the use of oxyphosphate cements.

This Hydraulic Cement is peculiarly suited to the requirements of crown and bridge

work.

Price, per box.....\$1.50

Cements—Continued.

Made by The S. S. White Dental Mfg. Co.

Weston's Insoluble Cement.

The hydraulic properties of this Cement have been demonstrated by careful experiments out of the mouth and in the practice of those most accustomed to its uses. In fact, the best results are obtained when the filling, immediately after its introduction into the tooth, is submerged in water as hot as can be borne in the mouth, and this continued from three to five minutes.

Put up in half-ounce single color, and four color cases. The four-color case contains four quarter-ounce bottles—No. 1, White; No. 2, Yellow; No. 3, Blue, and No. 4, Brown. With these, the dentist can, with a little practice, match closely any shade of tooth desired. The fluid bottle contains one ounce. The stem of the ground-glass stopper is extended to

form a convenient dropper.

Four	Color Cas	se\$2	.25
One (Color Pack	kage	1.50
Two		I	

Miscellaneous Cements.

Agate r oz. \$1.00; ½ oz.,	0.75
Dentoplastique per package	1.00
Flagg's Oxychloride	1.00
Zinc Phosphate	1.00
Fossiline, Nos. I and 2	2.00
Granit-Plombe, Poulson's oz. \$2.25; ½ ounce,	1.50
Havard Cement	2.50
Os-Artifical, Houghton'sper package,	.75
Peirce's Phosphate Cement	1.00
Weston's Non-Irritant	-75

The S. S. White Cement Powder Scoop.



BY MEANS OF THIS SCOOP

the powder is ladled out just as it is wanted, without handling the bottle. The cork closes the bottle mouth neatly, yet it is only seated loosely in the neck, and is readily adjustable upon the handle of the Scoop.

There are two sizes of Corks—Nos. I and 4.

		TRICES.	
		each,	ents.

The S. S. White Minimeter,



SOILED FINGERS AND WASTE

are almost unavoidable in the usual methods of pouring cement liquid. The S. S. White Minimeter is designed to prevent both and to facilitate placing on the mixing table the exact quantity of liquid desired. It has a capacity of only four or five drops, and being kept in the bottle is always ready for use. The cork stops the bottle mouth, but merely rests in it, so that by pinching the rubber bulb the Minimeter may be charged and withdrawn with the stopper for delivery as often as required. The cork can be adjusted on the tube to suit different depths of liquid, or in case the bottle is very deep may be removed altogether, the bulbflange serving to close the bottle-mouth.

The Minimeter combines convenience, cleanliness, cheapness, celerity, and economy.

Two sizes of Corks-Nos. 1 and 4.

_	-	-	-	-	~	
Ð	v	п	C.	L.	80	

				each\$0. 10	
6.6	6.6	6.6	6.6	per dozen 1.00	

Mixing Slabs for Cements, Etc.

Made by The S. S. White Dental Mfg. Co.

Glass Mixing Tablet, with rubber feet.

Patented August 19, 1890.



Size of Tablet, 41/2 x 31/4 inches at base; 3/4 inch thick.

The rubber feet with which this Tablet is equipped hold it firmly even when considerable force is applied in the mixing. The flat ground and polished surface is ample for the largest mix.

Price......25c.

Porcelain Palette.

Form used by water colorists. Three depressions. Measures 4 x 2½ inches.

Price, each......20c.

The Richards (porcelain).
Patent Applied for.



Shown about half size. Dimensions 4¾ x 3 x ¾ inches.

A thoroughly practical device, with a depression at one corner to receive any surplus liquid, which may be turned off by a canal leading down to the base. The under surface is roughened to prevent movement when in use.

Price.....30c

Beveled Edge (glass).

Shown about half size. Dimensions $3\frac{1}{8} \times 3\frac{1}{8} \times \frac{1}{4}$ inches.

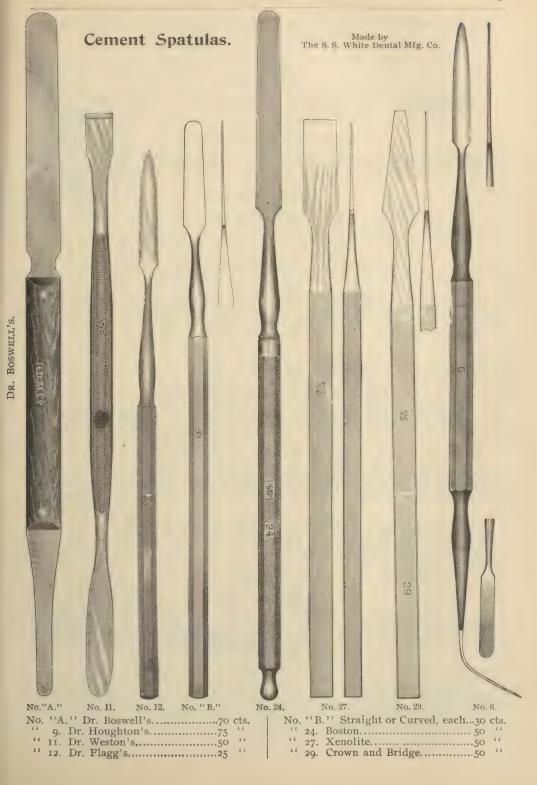
In the No. 4 the edges are beveled from both sides. One side has the regular polished surface for mixing on, and the other, or under side is ground to make the slab hold its place under the manipulation of mixing cements.

Price25c



No. 5. Plane Glass. For Mixing Nerve Paste.

No. 5 is somewhat smaller than the others, in accordance with its special use in mixing small quantities of nerve paste. The size is $3 \times 2 \frac{1}{2} \times \frac{1}{4}$ inch. Ground on the edges only. Both surfaces being of polished glass and readily cleansed, either can be used in mixing.



Gutta-Percha Fillings.

Hill's Stopping.

The oldest Gutta-Percha Fillings on the market, put up in $\frac{1}{20}$, $\frac{1}{10}$, $\frac{1}{4}$, $\frac{1}{2}$ and 1 oz. packages. Price, per oz.....\$5.00

Premium Gutta-Percha Stopping.

Excelsior Stopping.

Dawson's Improved Gutta-Percha Filling.

(HAND MADE.)

This Stopping is made from carefully selected materials, in small batches (few ounces each) to avoid the high temperature (and consequently dry and crumbling compound) that always destroys the more volatile constituents of high grade gum. It is of a quality that has never before been offered to the dental profession.

PRICES.

Pellets, Points, Cylinders and Wafers, per oz., \$3.00; 2 oz., \$5.00; 4 oz., \$10.00; 10 oz., \$20.00

S. S. White's Gutta-Percha Pellets.

A thoroughly reliable Gutta-Percha Filling, put up in Pellets of assorted sizes, in $\frac{1}{10}$, $\frac{1}{10}$, $\frac{1}{10}$, and 1 oz. packages. Price, per oz. \$2.00

Gilbert's Temporary Stopping.

Dr. J. Foster Flagg's Gutta-Percha Stopping.

Temporary Stopping.

(DRESSING SEAL.)

Cavitine.

Wilmington Dental Manufacturing Co.'s Gutta=Percha Nerve Canal Points.

The quality of Gutta-Percha from which they are made is the very best being good and tough, permits bending in any shape and easily worked Price, per package of 125 points......50 cents.



S. S. White's Gutta-Percha Nerve Canal Points.

Suggested by Dr. S. G. Perry.

These Points are made of "Premium" Gutta-Percha. They are symmetrically tapered and much more uniform than those ordinarily offered. Put up in boxes containing 150 Points.

Price, per box.....50 cents.

Wood Canal Points.

Price, put up in boxes of 100 Points, per box...... 50 cents.

Metal Canal Points.

Made of Lead and Tin, and put up in boxes of 50 and 100 Points of either kind, but not assorted.

Price, either Lead or Tin, per box of 100.....\$1.00 " 50..... .50

Rock Asbestos. For Pulp-Canal Filling.

Canal Point Carriers.

No instrument could be better adapted to the purpose for which it is intended than the Grooved-Beak Pliers. They are specially designed for handling Nerve-Canal Points. With the Flat-Beak Pliers it is very difficult to hold these small points securely while forcing them into the Nerve-Canal; but with the Grooved Beaks there would be no difficulty, the forms of the Points and the Plier-Beaks being perfectly adjusted to each other.

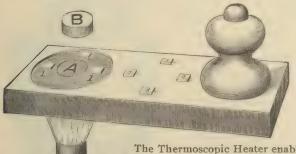
Price, nickel-plated, per pair.....\$1.25

Stiffened Paper Points for Drying Pulp=Canals.

Long and stiff, very absorbent, can be bent to any angle.

The surest and most practical thing ever used. They always find moisture after all others appliances have been employed. Try them and be convinced. They are in the operating case of all leading dentists.

Price, per 100......25 cents.



Dr. How's Thermoscopic Heater.

For Scientifically Softening Gutta-Percha.

Made by The S. S. White Dental Mfg. Co. Patented March 1, 1892.

The Heater (illustrated natural size) is made of Steatite, which absorbs heat slowly and retains it a long while.

The Thermoscopic Heater enables the dentist to heat gutta-percha of whatever grade to its proper softening point, with the scientific certainty of uniformly producing suitable plasticity without danger of injuring the sensitive material which is so frequently burned, smoked or otherwise impaired by the crude methods in common use.

The simple form and low price of the Heater, with the perfection of

its product, should induce its general adoption.

Price, each.....50 cents.

Mercury Holders.

Made by the S. S. White Dental Mfg. Co.

These Holders will contain two ounces of Mercury. The cut represents the full size. The Mercury is poured out of a very small opening at the top to prevent its escape when not in use; the lower end of the tube of No. 1 is plugged. No. 2 is securely closed by the screw top.





SUFFALDAY.

Full Size.

B. D. M. Co.'s Mercury Holder.

FILLED WITH RE-DISTILLED MERCURY.

This Holder is furnished filled with the best Mercury that can be procured, and is sold at the same price as the Mercury when put up in bottles. The Mercury is obtained by drilling a small hole in the top of the Holder.

Price, B. D. M. Co.'s Mercury Holder, filled with Mercury.....50c

H. D. Justi & Son's Mercury Holder.

This is a new and handsome design. The Holder is made of pear wood and is filled with best quality Mercury.

Price, filled, each...50 cents.

Mercury.

Under our own name we put up the best Mercury we can buy. It is re-distilled. It isn't the sort to be had in drug stores, yet it is nothing but Mercury, pure Mercury. It is important to have the best. This is the best. We furnish it in ¼ lb. glass bottles, from which the Mercury may be readily transferred to the regulation wooden holder.

Price, per four ounce bottle.....45 cents.



Natural Size.

Carborundum Linen Strips.

No person can make a better Strip than this. There isn't a Strip made that is as good. We charge them with the genuine Carborundum Crystals, the grade that is not for sale in the open market. We use the best linen we can buy. Best because it is strongest in proportion to its thickness. Our bond—well that's our secret. It is the only thing we know of that will hold these crystals—holds them so tightly that the strip and the crystal are almost one and the same. The bond is nearly water proof and that's all there is to say.

Everybody knows the ideal abraisive for use anywhere is Carborundum. It is just as good on a strip as in a wheel. There are a hundred reasons why every dentist in the land should use these Strips and there isn't one why he shouldn't.

We put our fac-simile signature on each package, because there are imitations of this Strip in the market. There is only one genuine Carborundum Strip made and we make it. Look for the signature.

Four grades—Coarse, Medium Coarse, Medium and Fine. Boxed separately or in an assorted package.

Price, per gross.....500

LEE S. SMITH & SON, MAKERS.

DENTAL DEPOT.

PITTSBURG, PA.

Finishing and Polishing Strips.

Paper Strips.

Sand Paper	per gross,	\$0.25
Emery Paper, French		.25
Cuttle Fish		.25

Lava Strips.

Two grades, fine and coarse, 100 Strips in a box, per box \$0.20

Cloth Strips.

Emeryper	gross,	\$0.40
Crocus	"	.40

Linen Strips.

Perfection Garnet, Emery, Lava, Flint, French Emery,	
Rouge, Pumice, and Assortedper gross	\$0.50
Davis Garnet, Emery, Lava and American Emery "	30

Common Sense Office Preparation Bottle.

Made by Lee S. Smith & Son, Pittsburg, Pa.

This Bottle will never upset. It will never lose its contents by accident.

It is built on a new principle. It lays flat on its side. The neck is bent upward as shown. This brings the last drop of medicine about as near the mouth as the first drop in the ordinary bottle. Easy to reach with hypodermic needle or dressing pliers, no matter how heavy.



Price, each.....o cents.

S.

Price, per doz.....\$1.00



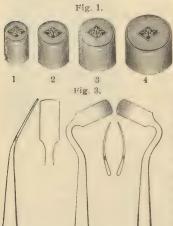
Champion Pepper Pads.

Put up in handsome tin boxes, as illustrated above, each containing nine dozen, with a sufficient number of envelopes to place the pads in, which you desire to give your patients.

Full directions are printed on each envelope.

PRICES.

Per box, containing nine dozen...... 50c.



Gutta=Percha Cap=Crowns. Suggested by Dr. T. M. Hunter.

Made by The S. S. White Dental Mfg. Co.

Simply telescoped over the tooth, and fitted to it accurately by merely softening them with dry heat and adapting them to its contour with warm instruments. They also afford an unequaled means of retaining medicaments in treatment or devitalization, especially in coronal exposures or in abrasion. Fig. 2 shows a cap in place on a molar tooth.

The instruments shown in Fig. 3 were devised for quickly molding and adjusting the

Gutta-Percha Cap-Crowns on the teeth. They possess so many points of merit that we have incorporated them in our set of plastic filling-instruments as Nos. 53, 54, 55.

The Gutta-Percha Cap-Crowns are put up in boxes con-

taining one dozen, assorted sizes.

The public demands an Anaesthetic.

Be on the safe side. Use Wilson's.



It is the Standard.

It has Merit.

It is Guaranteed.



CENTRAL CHEMICAL CO., WELLSVILLE, N. Y.



Did you ever stop to think what it means to guarantee an Anaesthetic to give perfect results



We take it for granted that you care for your needle as you know a needle should be cared for. . . .

If this is done

Wilson's...

. Anaesthetic

will come up to your standard of what an Auaesthetic should be, or your dealer will refund your money. He is so instructed.

You also know what you are using for a statement of the ingredients accompanies every bottle.

1 oz., \$1.00. 2 oz., \$2.00. 10 oz., \$9.00.

:- Order of your Dealer. -:

CENTRAL CHEMICAL COMPANY, WELLSVILLE, N. Y.

Plain Talk About Cataphoresis, and About the Quickest, Safest and Surest Means for Applying That Scientific Principle.

We do not propose to go into a technical treatment of the subject. We do not propose to weary the dental profession with unnecessary electrical terms and technicalities. We do not even undertake to discuss the subject of Cataphoresis.



The G. M. Wheeler Fractional Volt Selecter.

We presume that every dentist has followed the matter carefully, because for years and years the profession has been searching for something which will do away with or lessen the pain caused by treating the sensitive parts of the human structure.

There is no possible question about the success of Cataphoresis when used in the proper manner. It is practically infallible when applied in the right way.

The G. M. Wheeler Fractional Volt Selecter

Is a current-pressure controlling device. There is nothing like it in the world. It involves a new principle, and has been in use but a little over a year. It has been given the severest tests by some of the most successful and distinguished dental sur-

geons in America. It has never failed to annihilate pain; it has never failed to make Cataphoresis a complete success in every instance, where it has been properly used. We have such faith in the virtues of our Volt Selecter that we confidently believe that it will never fail.

Every new thing has to fight its way into public favor. A persistent skepticism has greeted every advance of science since the world began. Our Volt Selecter has been no exception. Every objection that could be fancied has been hurled against it. Every maker of worthless means, devices and methods has brought up the time-worn ''just-as-good'' argument.

Our Selecter introduces new features not generally understood—features which are possessed by no other apparatus.

The G. M. Wheeler Fractional Volt Selecter can be used in connection with the current derived either from the street mains or from galvanic batteries. It possesses two features of the utmost importance which no other apparatus has. The first is that it automatically adjusts the current to the varying resistances of

the patient. No Rheostat ever did this or ever will do it. The second is that the operator can break the contact with the patient without the painful shock experienced when Rheostats are employed. These two points are vital things for the dentist to consider. They are absolutely essential to successful and painless Cataphoresis.

We have called it a Fractional Volt Selecter because it is a Fractional Volt Selecter, and controls the current pressure in minute fractions of a volt. Heretofore the principal objection to treatment by Cataphoresis was the pain caused the patient by the application of electricity through Rheostats. But now, by the use of our Selecter, the current is applied so gradually, and the resultant current conforms so strictly with the varying resistances presented by the patient and medicaments, that absolutely no pain whatever is caused. We want to lay particular emphasis on the fact that our Selecter has made painless Cataphoresis a success. Before its introduction the Rheostat caused so much pain to the patient that the scientists hesitated about urging the employment of Cataphoresis in dentistry.

A Necessity.

The G. M. Wheeler Fractional Volt Selecter is revolutionizing the methods of dental operations. No dentist can stand at the head of his profession without it. It is a necessity, if ever there was one. A dentist's success nowadays depends upon his ability to work with the greatest degree of comfort to his patient. That means that Cataphoresis must be applied. To successfully carry out this principle, our Fractional Volt Selecter is required. Rheostats may be successful now and then, but our Selecter is always successful. There is no chance about it.

The G. M. Wheeler Fractional Volt Selecter is not a Rheostat. When the current is applied to delicate tissues or to sensitive dentine, a Rheostat invariably gives a painful shock. The same is true when the contact is broken while the current is still flowing. Exactly the opposite is true when our Volt Selecter is used, because that suffering is avoided.

Descriptions and Prices.

It doesn't require expert electrical knowledge to use our Fractional Volt Selecter. The instructions we provide will give any practitioner sufficient knowledge for the first cases, and his subsequent experience will be worth more to him than anything we could say.

The body of our Selecter is a metallic cylinder. The base is of solid mahogony or ebony, 7½ inches in diameter. The apparatus measures 14 inches in height, and weighs less than 5 pounds.

We make two kinds of Selecters. One is for use with the direct current taken from the street lighting circuit. This, with the necessary electrodes, will furnish an equipment to the dentist at cost of \$58 oo.

The other Selecter is to be used with our Cataphoretic battery, or any other battery if the purchaser prefers. The cost of a battery outfit of this kind is \$63.00, including essential electrodes.

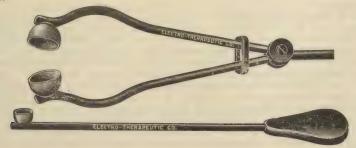
The price of our Selecter is a little higher than it costs to buy a Rheostat outfit, and yet we believe it is the cheapest device that a dentist can buy. It is

the cheapest because it never fails. It is the cheapest because it actually and absolutely renders sensitive teeth, living pulps and the tissues of the mouth insensible to pain. It will pay for itself in a remarkably short period through the time it saves. Under the old method, a dentist wasted much more time with sensitive patients in getting them to submit to an operation than was necessary to perform the actual work itself. Now all that is done away with. Cataphoresis performed with our Fractional Volt Selecter is a quick operation. The dentist is enabled to work fast. He can truthfully say that he works painlessly. He will have the strongest argument on earth by which to gain patients. The operator who has our Volt Selecter in his office, and makes use of it, will be the most successful.

We have issued a forty-page book on the subject of Cataphoresis. It contains facts that every dentist ought to know. It contains the reports of experiments by famous and distinguished dentists, and it tells more about our Selecter than is possible in as small a space as this advertisement. We will send a copy free to every dentist who will ask for it. Sending for our book does not carry with it any obligation to purchase anything. We will answer all inquiries fully and we invite every reader of this catalogue to correspond with us.



The above illustrations show a pair of single Gillett Electrodes and Platinum Needle. They are indispensable to operations by Cataphoresis. They are included with our complete outfits, the prices of which are quoted elsewhere in this article.



The above cuts illustrate the double rubber cup Positive Electrodes and the single rubber cup Electrode. We charge extra for these, and they are not included in our regular outfit unless ordered separately. Beside these we have many other Electrodes and appliances.

Our Selecter and Electrodes can be purchased at all the leading dental

depots, or direct from us.

Custer's

Cataphoric Appliance.

Made by
The Ransom & Randolph Co.

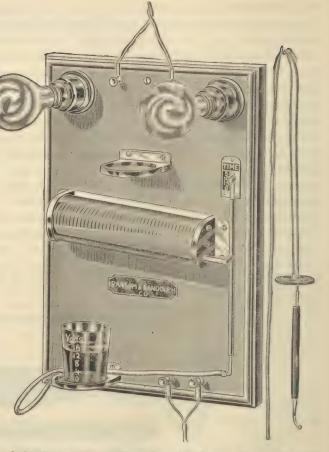
Full directions with each outfit.

Send for circular.

PRICES.

Rigged for Electric Current.....\$34.00

Rigged with Battery of 15 Dry Cells, in box...... 40.00



Dr. L. E. Custer, inventor of the Custer Electric Oven, has placed upon the market his new Cataphoric Appliance which is receiving much praise wherever exhibited. This appliance is a little wonder, and will take its stand with the Electric Oven as one of the most practical modern inventions for the practice of dentistry.

The instrument has been devised to meet the needs of the practical dentist and has been manufactured at the request of a number of practitioners. Dr. Custer early recognized not only the importance of very gradually increasing the current, but the necessity of some mechanical device for relieving the operator of that care. The clock device described in the "Ohio Dental Journal" of June, 1896, and in the "Dental Review" of May, 1896, did this perfectly, but it was too complicated to be put into the hands of most practitioners.

Besides a machine automatic in its workings, the inventor has had in view from the start simplicity and effectiveness, and the results attained are all that can be desired.

The ordinary rheostat is done away with, as is also the necessity of consulting a watch or clock. A mercury shunt rheostat is used, and the mercury is raised or lowered about the rheostat coil by its own weight instead of the rheostat itself being made to move by the hand of the operator, and by means of a valve the flow of the mercury which produces the increase of current can be accurately and steadily controlled, or if necessary can be held at any desired pressure.

The direct electric current can be used or the apparatus can be connected with a battery placed in the laboratory or concealed in the operating room, and its position on the wall renders it more convenient than the various appliances which require a chair or table for their use.

It registers the voltage used, turns on and off and increases the current itself without pain to the patient, and the rate of increase can be set to any amount with the time attachment and is under perfect control.

Wyckoff's Obtundent.

Formula of W. T. Wyckoff, D. D. S., Philadelphia, Pa.

A local application and hypodermic injection for the painless extraction of teeth, and all minor surgery. Contains one per cent. Cocaine, associated with Trinitrin and Antiseptics.

It contains no Atropia, Chloral, Chloroform or Ether.

Specially adapted for persons suffering from extreme nervousness or heart trouble, where it would be unwise to administer Nitrous Oxide or other general anæsthetics, its effect being practically local in character.

Cocaine Hydrochlorate5 grains.
Solution Trinitrin (1 per cent.)
Spirit Thymol Comp
Distilled Water, q. s. ad

The Spirit Thymol Comp. is composed of Benzo-Boric Acid, Thymol, Eucalyptol, Oil Wintergreen, Oil Peppermint, with Ext. Witch Hazel, Alcohol and Distilled Water.

Put up only in one-ounce bottles.

Price	e	per	ounce,	net,	\$0.60
		5-ounce lots			
"	in	10-ounce lots	66	66	.50

SOLE AGENTS:

HENRY K. WAMPOLE & CO.,

MANUFACTURING PHARMACISTS,

PHILADELPHIA, PA.

HIGH ART AND USEFULNESS

-IN--

DENTISTRY.

THE ADVANTAGE, METHOD AND SERVICE

--OF--

DR. THAYER'S

* CURATIVES AND ANÆSTHETICS *

NUMBERS ONE! TWO!! THREE!!! FOUR!!!!

TO GAIN PATIENTS AND KEEP THEM

Requires art, intelligence, neatness and ability to perform every dental operation WITHOUT PAIN.

DR. THAYER'S A=Os

combined with thoughtful application, will enable a progressive man to win, keep and benefit his patients with less expenditure of physical energy than by any methods devised.

THESE CURATIVES ARE USED AND ARE SPECIFICS FOR

Hypersensitive Dentine either in Buccal, Cervical or Labial Cavities. Acute or Chronic Pulpitis. Incipient Periodontitis—forming abscess. Peridental Inflammation, erroneously termed "blind abscess." Chronic Alveolar Abscess—fistulous. Obstinate Pyorrhæal Pockets. Serumal Deposits. Necrosed Bone. Cementitis. For Prime Asepsis. Root Plugging. For Topical Anæsthesia on Soft Tissues and Hypo-mucous Anæsthesia for the painless extraction of the teeth. Four distinct and separate remedies.

NUMBER ONE A=O

is to Obtund Sensitive Dentine, Only! Price, \$1.50.

NUMBER TWO A=O.

by topical application, will produce a profound anaesthesia on soft tissues in less than fifteen seconds. Use in adjusting Rubber Dams, Ligatures, Clamps, Gold Crowns, Lancing Gums, Dilating Fistulars so as to get at abscess and to cure it with One Dressing. Price, \$1.50.

NUMBER THREE A=O

injected into the tissues will produce an *instantaneous anæsthesia*, so that a six-year molar can be removed without pain, even where there is a twelve-year molar back, and a second bicuspid front of it. There will be no fainting, collapse, soreness or annoying sequelæ. Price, \$1.00 an ounce.

NUMBER FOUR A=O

is invaluable. Will not kill pulps, but so completely anæsthetize them, that they can be removed without pain. With this and Number Two, a Chronic, even a Blind Abscess, can be radically cured with but ONE OPERATION. Removes Pulpitis and Serumal Deposits. Closes up obstinate Pyorrheal Pockets. Obtunds Hypersensitive Dentine and completely removes the pain in shaping living teeth preparatory to crowning. Price, \$3.00.

A FEW OF MANY TESTIMONIALS.

FROM EMINENT PRACTITIONERS.

"Your remedies act charmingly. I use them continually." J. N. FARRAR, M. D., D. D. S., New York. Dr. Farrar is well known as the author of that popular 'Treatise on Irregularities.'

"Your Number Four for labial cavities is all I can wish for. I can extract living pulps with it." H. M. PERKINS, D. D. S., Boston, Mass.

"I want to thank you for your suggestions for the treatment of abscessed lower molars." W. H. Minor, D. D. S., M. D., New Haven, Conn.

"Please find \$3.00 for the third bottle of your Number Four." J. A. BOLARD, D. D. S., Phila.

"Send me Number Three again. Great success."
J. B. CHAFFEE, D. D. S., Carthage, Mo.

"Have used six bottles of your Number Three with perfect success in every case. I have no swollen faces." W. D. CLARK, G't Barrington, Mass.

"Your Number Three has given me great satis faction. Find M. O, for another bottle." A. H. MATHIEU, Baltimore. Dr. M. has used Number Three for two years.

"Tuse all your A=Os. Nothing is too good for my patients. I congratulate you on your success and myself for having brains enough to appreciate them." A. A. GRIBBIN, D. D. S., Trenton, N. J.

"A constant use of your A=Os only confirmed my good opinion of them. My patients testify of their efficacy in relieving pain." A. H. BROCKWAY, M. D. S., Brooklyn, late President of the Odontological Society of New York.

"Molar. Pulps exposed. Dipped a smooth Donaldson Nerve Bristle into Number Four A=O. Worked slow, easy and in twenty minutes had both canals thoroughly cleansed—with no pain." A. B. AYERS, D. D. S., Boston, Mass.

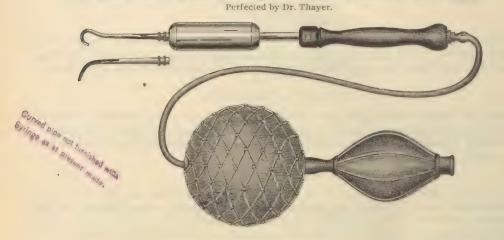
Can be purchased at your Dental Depot. If not, send Money Order, and any of the A—Os will be sent to you by mail. If further advice is desired write to

W. IRVING THAYER, D. D. S., M. D.,

Williamsburgh, Mass.

If any misrepresentation has been made as to the value of the A=Os, the money paid for them will be refunded. This information cannot convey to the reader's mind the hundredth part of the immense value of the A=Os, to any dentist.

A New and Lately Improved Warm Air Syringe.



For causing the rapid absorption of Dr. Thayer's Number Four A=O, into Dentine, to produce a speedy anæsthesia, so that any Dentine, no matter how sensitive, can be excavated in ten minutes from starting, absolutely without pain, with no injury to the pulp or tooth. Also for drying out root canals.

Can be heated up in one minute, and will retain its heat for ten minutes. Can be regulated at pleasure.

Number "A," imported bulbs, filled chamber, continuous shaft through handle, and thoroughly constructed. Price, \$5.00. Nothing desirable has been neglected in "A." Flow of warm air continuous and perfect.

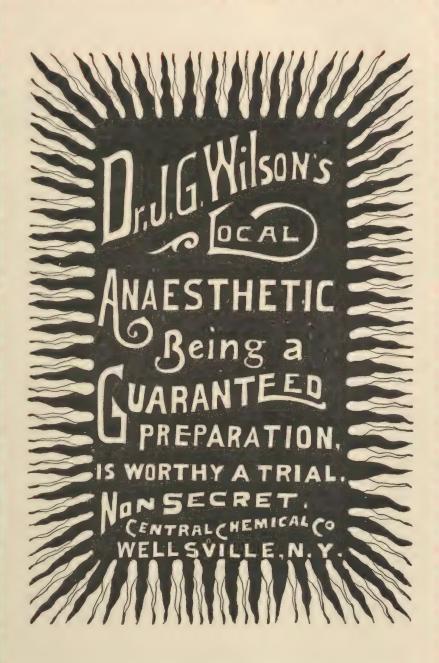
Number "B," American bulbs, not as efficient or well finished as "A." Price, \$4.00.

A special Composition Holder for grasping hot cylinder, so as to obtain a short and convenient action. Price, 50 cents.

All sent C.O.D. and express charges; or, upon receipt of a money order, free by mail.

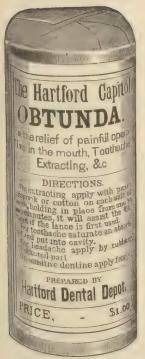
W. IRVING THAYER, D. D. S., M. D., WILLIAMSBURG, MASS.

CAN BE PURCHASED AT YOUR DENTAL DEPOT.





The Hartford Capitol Obtunda.



There It Stands.

One of the original pain relievers which has always had its place with the considerate operator.

Do you know the Obtunda?

It is an elegant preparation; viz., pleasant to smell and to taste and to the eye. For advanced dentistry, it is used wherever it is known; and when known, the dentist will not do without it. The patients will have it, hence it is a bringer of business.

Now, don't think it is used hypodermically; it's not that kind. If you want to extract a tooth, use it without fear of toxic effects which always goes with the needle.

If you wish to extract a nerve, use Hartford Capitol Obtunda.

If you wish to separate teeth, use Hartford Capitol Obtunda.

If you wish to clean teeth, and have select patronage, use Capitol Obtunda reduced, one part water, two parts Obtunda.

If you do crown and bridge work, and are a fast worker, use Capitol Obtunda; the Obtunda works fast, too, eases the patient's pain and relieves the strain.

Do you ever have trouble in taking an impression by the patient's being nauseated? The Hartford Capitol Obtunda will overcome the annoyance perfectly. Use about one teaspoonful to one-half glass of water, and rinse the mouth before taking impression.

When your work is close to the gums, sooth with H. C. O., or if you should be stretching the mouth beyond a smile, reduce H. C. O. with water and apply to the lips.

Your patients will appreciate all such attention, and it does not take your time.

Now, mark you, it is a reliever of all painful operations in the mouth. It will not kill the pain, but you can swear by it as a great comforter.

Price, per bottle.....\$1.00

Howard's Antiseptic Balsam Varnish.

For Anchoring Gold and Gutta-Percha Fillings, Lining Cavity, Etc.

It will be found a valuable adjunct, facilitating operations, and enabling one to produce positive results, establishing a condition more favorable to success by interposing a non-conductor and antiseptic cavity lining.

Experimenting in filling a cavity or two out of the mouth, or building gold upon a tooth brush handle without any excavations or scratches being made upon the surface, will demonstrate what can be done with it to your astonishment!

It will insure a better class of operations at a great saving of time. Put up in packages of two sizes, with full directions. Sent by mail.

Balsamo del Deserto.

Balsamo del Deserto is very adhesive—will even adhere to wet surfaces; it is a perfect seal; it is non-irritant, innoxious to healthy human tissues, while it is an efficient germicide and disinfectant; it has the healing property; it is mechanically antiseptic; last of all it retains its substance and its properties indefinitely.

"When Balsamo is mixed with amalgam it causes the filling to be as poor a conductor of heat, cold and electricity as a cement filling, and is impermeable to the fluids of the mouth. The tooth-edge does not crumble as it does with amalgam alone. . . . The filling does not blacken the tooth as amalgam fillings do, Balsamo keeping the filling from oxidizing."

Put up in half-ounce ground-glass stoppered bottles.

Price, per bottle.....\$1.00

"Kelene" (Ethyl Chlorid).

CAP FORM, CURVED.



The efficacy of the Ethyl Chlorid which we sell—known as Kelene, to distinguish it from other makes—has been proven thousands of times.

As an Obtundent for Sensitive Dentine. As a local Anæsthetic in Tooth-Extraction or Pulp-Extirpation. As a Reliever of Neuralgia. As a Diagnostic between Peripheral and Centric Neuralgias.

PRICES.

Prescribe Listerine

For Patients Wearing Bridge Work or Dentures, and as a General Antiseptic and Prophylactic Wash for the Mouth and Teeth.

LISTERINE is kept in stock by leading dealers in dental supplies everywhere, but in consequence of the prevalence of the substitution evil, we earnestly request dental practitioners to prescribe Listerine in the original package.

Descriptive literature may be had upon application to the manufacturers,

LAMBERT PHARMACAL COMPANY,

ST. Louis.

Price,	per	bottle	\$1.00
6.6	per	dozen bottles	8.00

Fletcher's Carbolized Resin

Is highly recommended as a substitute for creosote in nearly every case; being much more easily handled, more effective and less disagreeable to the patient than creosote, and leaves no odor in the operating room.

On making the application, gently clear the cavity, dry it with spunk or absorbent cotton, and then apply carbolized resin on a small ball of cotton, sealing over with a very thin sheet of wax. The sealing is not absolutely necessary, as the carbolized resin is almost insoluble. In most, if not all cases of exposed pulp, a few applications will so entirely destroy the sensitiveness that the tooth may safely be filled without capping. It is an invariable specific for "toothache." so called.

In addition to its other valuable properties, Fletcher's Carbolized Resin will be found to be the most reliable styptic in obstinate cases of bleeding. A plug of amadou or cotton, wet with Fletcher's Carbolized Resin and packed in the cavity, will stop bleeding instantly in cases where other remedies have failed. If it becomes crystalline or too thick for use, add a few drops of chloroform.

Price, per bottle.....25 cents.

Capsicum Plasters.

S. S. White Dental Mfg.	Co.'sper gross, 6	so cents; per	dozen gross, \$6.00
Darby's	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		per box, .50

Facts for Dentists.

This is an advertisement. It is not set in the form of reading matter to deceive anybody. We have considerable to say to the profession, and desire to condense it into one page. We have absolute confidence in our Dental Pharmaceutical Preparations. We say freely that they are best because we firmly believe just that. We do not try to meet any other firm's prices. Our preparations are manufactured with the sole idea of making them standard. We employ the most competent people we can find, and we use the best ingredients that money will buy. The formulas we follow are the result of long experience. They have stood every test of dentist and chemist. There is no guess work about them and no theory.

Our prices are as low as we can afford. We cannot make them lower without slight-

ing something. This we shall never do.

Following are a few items to which we call particular attention:

DENTAL TINCTURES.—The dentist must have quick local action in using them. This is true when either a counter-irritant or an anodyne is required. Pharmacopæial tinctures lack sufficient strength. Our Tinctures possess from two to four times the strength of those sold by druggists. Treatment with our Tinctures is accomplished much easier and much quicker than with any other. Druggists have no call for preparations possessing such a degree of strength, and the dentist can secure our Tinctures only by applying to dental depots or sending direct to us.

Aconite Root, 30c.; Iodine (28 per cent. iodine), 30c; Laudanum, 30c.

ESSENTIAL OILS.—Ours come from the best importers and manufacturers in the world. We have no use for the uext best. We buy in original coppers. This means that our Oils are sweet, pure, fresh. There is no disagreeable odor. They are absolutely free from oxidized terpenes. There is nothing better than our best.

Oil Cloves, 30c.; Oil Cajeput, 30c.; Oil Eucalyptus, 35c.; Oil Cassia, 40c.; Oil Cinna-

mon, true Ceylon, \$1.75

MERCURY.—There isn't any article the dentist uses which is so often wrong as mercury. Simple redistillation is not enough to insure cleanliness and purity. Our Mercury is said by the profession to be the purest and cleanest that can be secured. There is no question about it. It is so. No alloy will be discolored if our Mercury is used. It is redistilled by a special process. Thayer & Co.'s Mercury can be had of the dealer publishing this catalogue. Pound lots, \$1.75; ¼ pound bottles, 50c.

MUMMIFYING PASTE.—This is a new preparation. It is used in cavities where the pulp is dead. No treatment of any sort is required. Simply work a small amount of the Paste into the canal. Then the cavity is filled in the usual manner. That is all. There will be no abscesses. There will be no further trouble of any sort. We believe every dentist will recognize in this Paste a vast advantage over the old and unsatisfactory methods.

OUR LOCAL ANÆSTHETIC is best of all. There is no question at all in our mind about that. It extends over a large area of tissue, and it has a much longer effect. There are no after effects and no sloughing. It is carefully prepared on scientific principles. It is compounded with various drugs, which tend to counteract any injurious results which occur in other preparations because of the amount of cocaine they contain.

TO THE TRADE.—We want to say a word or two about our Engine Oil, which is colorless, tasteless and non-gumming. It will never congeal, no matter how low the thermometer. It cannot become rancid. Our Liquid Silex is perfectly clear—no deposit or sediment in it. We make a filtered Sandarac Varnish and a clear, transparent, extra good Shellac Varnish, each put up in wide-mouthed 2 ounce bottles.

Write to us about any supplies. There is room here to mention only a few specialties. Ask us all the questions you desire. We are here to serve you perfectly and promptly. We are here to give you satisfaction. We want your trade and will go to any extreme to please you. Send to your dealer for our catalogues and for any information you want.

H. T. THAYER & CO.,

Pyrozone Solutions,

Pyrozone 25 per cent. Solution (Caustic), in glass tubes.

Pyrozone 5 per cent. Solution (Antiseptic), in glass tubes.

Pyrozone 3 per cent. Solution (Medicinal), in 4 oz. glass stoppered bottles.

Pyrozone Atomizers.

Pyrozone 3 per cent. Solution in Dentistry.

G. H. Bowman, D. D. S., writes: It gives me especial pleasure to express my satisfaction with Pyrozone 3 per cent. Solution. I feel thoroughly well equipped for any emergency of septic nature. A definite and positive result is always obtained, and is all the more gratifying because it accomplishes just what is expected of it. I use Pyrozone 3 per cent. Solution and find it sufficient. Every dentist who desires to do thorough work must have this preparation constantly on hand.

Pyrozone 5 per cent. and 25 per cent. Solutions in Dental Practice.

As Pus Destroyers.

You will find Pyrozone Solutions of very great assistance to you in surgery, especially where you have to deal with an old pus cavity which will not admit of curetting, and even in those cases, after a thorough use of the curette, I have found it advisable to wash out the cavity with a 5 per cent. Solution of the drug-

Pyrozone 25 per cent. Solution is a reliable and an infallible detector of pus, and will always penetrate the tubuli and cleanse them.

Pyrozone 25 per cent. Solution as a Bleaching Agent.

Dr. F. M. Allen writes: I have bleached two central incisors in a lady's mouth, which were nearly black, in September, 1893, with Pyrozone 25 per cent. Solution, and to-day—August 6th, 1895—they are as white as when they were first bleached.

Tartarlithine for the Treatment of Pyorrhoea Alveolaris.

TARTARLITHINE AND SULPHUR.

Full notes furnished upon application. The dental trade supplied by The S S. White Dental Mfg. Co.

McKESSON & ROBBINS,

NEW YORK.

For prices see page 314.

Preparations for Office and Laboratory.

Acid, Carbolic, 1 oz. glass-stoppered bottles	per bottle,	\$.85
" and Glycerin, 2 oz. "	4.6	.35
Acid, Carbonic, I oz. glass-stoppered bottles. " and Glycerin, 2 oz. " " Salicylic, ½ oz. bottles. " Trichloracetic, 1 oz. bottle Anæsthetic, Barr's " Von Bonhorst's	66	.20
" Trichloracetic, 1 oz. bottle		.60
Anæsthetic, Barr's		.75
Von Bonhorst's		1.50
AISCHICAI FIDIC		
" Paste		.50
Bags, Capsicum, Foulks' [12 in a Dox]	per box,	.50
Bags, Capsicum, Foulks' [12 in a box]	ner hottle	.50
Black's, 1, 2, 3 Sol	per bottle,	.75 .35
Camphorated Phenol	46	.50
Camphorated Fhenol	66	1.00
Carvacrol	10 · ner how	.80
Cocaine Hydrochlorate of McKesson & Robbin's 4 per cent solution. % oz. vials	each	.15
Cocaine, Hydrochlorate of, McKesson & Robbin's, 4 per cent. solution, ½ oz. vials	66	.20
Cologne, Bouquet, 12 oz. glass-stoppered bottles	per bottle.	1.50
Ordinary, pint bottles	46	1.00
Ordinary, pint bottles	66	1.75
Creosote, l oz. glass-stoppered bottles	66	.25
" Pure Wood, l oz. glass-stoppered bottles	66	.50
Electrozone, 16 oz. bottlesper doz., \$4.0	00; "	.50
Eugenol Oil, 1 oz. bottles	66	.60
Eugenol Oil, 1 oz. bottles. Filling, Canal, Snyder's Antiseptic. Foulks' Idoform Compound. Arsenical Compound.	per jar,	.50
Foulks' lodoform Compound	per bottle,	.75 .75 .25
" Arsenical Compound		.75
Glycerin, Fure [Glycerol], 2 oz. bottles	***	.25
Glycerin, Pure [Glycerol], 2 oz. bottles Good's Disinfectant		.60
Guoda Santa Cant.	per can,	.10
Guaiacocaine	44	.50
" in Creacate	44	.25
" in Creosote Iodoform, ¼ oz. bottles " Paste, odorless " Paste, podorless	66	.60
" Paste odarless	66	.50
Iron, Solution Perchloride of, 1 oz. glass-stoppered bottles	44	.20
" Per Sulph of [Monsel's Solution] loz glass-stoppered bottles	64	.20
"Subsulphate of [Monsel's Powder], 1 oz. bottles	4.6	.25
" Per Sulph. of [Monsel's Solution], 1 oz. glass-stoppered bottles " Subsulphate of [Monsel's Powder], 1 oz. bottles, Kalium, Dr. Schreier's.	per tube.	1.75
Laudanum, Denral	per porrie.	.30
Lime, Lacto Phosphate of, ½ oz. bottles Lining, Dental, Chappell's Liquid Celluloid, 1 oz. bottles	66	.50
Lining, Dental, Chappell's	per jar,	1.50
Liquid Celluloid, 1 oz. bottles	per bottle,	.25
" Gutta-Percha, 1 oz. bottles		.40
Rubber Solder	. 66	.35
Litmus Paper, Blue and Red	per jar,	.13
Meditrina, 8 oz. bottles, per doz. \$4.00 Nerve-Fibre. " Paste (Arsenic and Creosote), ½-oz. Bottles	per bottle,	.50
Nerve-Fibre	per jar,	.75
Paste (Arsenic and Creosote), %-oz. Bottles	per bottle,	.50
Nitrate of Silver Disks	66	.50
Oil of Cajeput	4.6	.30
" Cloves, ½-oz. bottles" Eucalyptus	46	.50
" Wintergreen	6.6	.40
" Wintergreen. Parting Fluid, Elliott's	44	.25
Pepsin, Dental, %-oz bottles		.50
Peroxide of Sodium, in cans.	per can.	.50
Phenol Sodique, 8-oz, bottlesper doz. \$3.50	: per bottle.	.35
Plaster Jeinglass 1 ward in a hour	man han	.75
Potassa, Permanganate of, (Crystals), %-oz. bottles. Pyrozone, 3 per cent. Solution, 4-oz. bottle. per doz., \$4.50	per bottle,	.50
Pyrozone, 3 per cent. Solution, 4-oz. bottleper doz., \$4.50	3 66	.50
" 5 " " 1-oz. tube	per tube	1.00
20		.75
Atomizer		1.25
"Extra Glass Tubes. The 3 per cent. Solution can only be sent by express. The 5 per cent. and 25 per cent. Solution	one or he	.75
Robinson Remedy for Pyorrhea Alveolaris, etc	ner hottle	,50
Salol	aper bottle,	.25
Sanitas Oil, 1-oz. bottles.		.20
Schreier's, Dr., Kalium [see above]		
Sedative Antiseptic Dressing	66	.30
Silver, Nitrate of [Crystals], ½-oz. bottles		.30
Styptic Colloid, 2-oz, bottles		.60
Tannin Solution		.25
Tartarlithine Tablets	66	1.00
and Sulphur Tablets	66	.75
Tereben, 1-oz. Dottles		.45
Thymnogone 16.07 bottles		.40
Thymozone, 16-oz. bottles		.75
Tincture of Aconite Poot Log bottler		.50
Tincture of Aconite Root, 1-oz. bottles		.15
" Calendula, 4-oz. bottles		.35
" Capsicum, 2-oz. bottles		.00
	46	.25
" lodine, 1-oz, glass-stoppered bottles	46	.25
'' lodine, 1-oz. glass-stoppered bottles	66	.25 .25 .25
" Iodine, 1-oz. glass-stoppered bottles." " Coloriess, 1-oz. glass-stoppered bottles. "Vulcanite Solder	66	.25 .25 .25 .25
'' lodine, 1-oz. glass-stoppered bottles	66	.25 .25 .25 .25 .50
" lodine, 1-oz. glass-stoppered bottles." " " Coloriess, 1-oz. glass-stoppered bottles. "Vulcanite Solder	66	.25 .25 .25 .25 .50

Liquefied Nitrous Oxide.

For minor operations, such as the extraction of teeth, Nitrous Oxide Gas maintains the position it has always occupied, that of the surest and safest anæsthetic.

We handle gas of absolute chemical purity.

We guarantee every cylinder to contain the exact amount of gas stated on the label. No more, no less. This may be tested by weighing the cylinder when full and again when empty.

The last thing before shipping we weigh the cylinder. The weight must be correct or the cylinder is not shipped. When a customer receives the cylinder he should weigh it at once. If the weight does not tally with that marked on the label he should return cylinder promptly. If we are not advised immediately of any shortage we cannot hold ourselves responsible for any subsequent leakage.

DDIONG
PRICES.
Small Cylinder, with 100 gallons of Gas
Large '' '' 450 '' ''18.00
Refilling Small Cylinder
" Large " 2 cents per gallon 9.00
Small Cylinder. 4.00
Large " 9.00
PRICES OF PARTS WHEN SOLD SEPARATELY.
Horizontal Case, Leather-covered, Velvet-lined, Nickel-plated Mountings 10.00
Upright Case, Leather-covered, Nickel-plated Mountings
" Japanned, " " 5.00
Gas-Bag, 4½ gallons capacity 2.25
7 " 3.50
Metallic Connections for Gas Bags, per set
Inhaler No. 3, Nickel-plated
Inhaling Tubing, Worsted, 4 feet, at 50 cents per foot 2.00
Inhaler No. 3, with Flexible Face-piece
" ' ' Inflatable '
Wheel Key
Valve Yoke, Nickel-plated, with Tube for connecting Cylinder and Bag 1.50
Thimble, Nickle-plated, for securing Tubing to Yoke
Stop-Cock, for insertion in small Rubber Tubing 1.00
Yoke Attachment, for Gas-Stand or Wall-Bracket
Wall Cylinder Bracket

Steel Gas Cylinder.

This seamless Gas Cylinder is made of a single piece of tough, fibrous steel. Holds $2\frac{1}{2}$ times as much N_2 O as the old small cylinders, is only a trifle longer, and weighs only one-third more.

Requires refilling only about one-third as often.

Has a steel cap to protect the valve from accidental injury.

Stands a strain far beyond that ever given to any previous make—tons of pressure to the square inch.

Costs with all its added safety and convenience only in exact proportion to its greater capacity.

Size (outside dimensions)-

(
Length, clear of valve and cap					
Diameter 4 "					
Capacity: Liquefied Nitrous Oxid					
Compressed Oxygen					
Average weight, including cap and valve 16 lbs.					
PRICES.					
Seamless Steel Cylinder complete					
Gas (Nitrous Oxid), 250 gallons					

The Nevius Gasometer.

Patented August 14, 1883.



What We Believe.

We believe The Nevius Gasometer is the very best in the world. We have reason for our belief from the fact that nobody has ever been able to find any fault with it.

Dentists tell us that there is nothing about it that can be improved. They tell us that it really costs them nothing to buy it, because it saves enough gas to pay for itself.

It is a handsome apparatus, as the illustration shows. It will adorn the finest operating room.

The Nevius Gasometer holds 12 gallons of gas. None is wasted. From 3 to 5 gallons is the usual quantity needed to completely anæsthetize a patient, and what remains can be retained in good condition for future use.

There is a scale on the bell of the Gasometer that shows the operator exactly how much gas he is administering, and the construction is such that the inhaling is decidedly easier than when any other apparatus is used.

The dentist who aspires to be the best in his profession in his city

needs this Gasometer. Nothing short of the best apparatus will answer for this purpose.

Write to us and bother us with all the questions you would like to have answered.

Price, complete, including 100 gallons gas	00
Gasometer, separate 40.0	00
Cylinder Stand	00

H. D. JUSTI & SON,

The Davis Improved Gas Receiver.

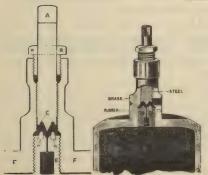
The Davis Improved Gas Receiver has advantages over many others in the fact that it is made very strong and substantial, and is so perfectly balanced that the breath will raise and lower the receiver without trouble, and registers the amount of Gas inhaled by patient. The base is made of iron and is mounted on legs with casters so that it can be easily moved; it is very nicely ornamented and finished and gives universal satisfaction.

Davis Improved Gasometer holds 12 gallons Gas.

Price as shown, includ-

ing boxing......\$40.00





The New Davis Gas Valve.

This Valve can be used on all old Gas Cylinders as shown in cut. The combination of steel plug, with centre point resting in soft metal and grooved so as to receive the hard rubber shoulder, thus secures a perfect joint that does not wedge and stick, enabling the operator to open and shut with very little effort.

No extra charge on Cylinders and Gas made by the Rochester Dental Mfg. Co.



The Lewis Gasometer.

The body of the Gasometer is made of Galvanized Iron, and placed upon an ornamental cast-iron stand, the whole being neatly japanned and ornamented. The stand is furnished with a support which will securely hold either a 100 or 500 gallon cylinder.

The fittings are all nickel-plated. Capacity of Gasometer, about seven gallons.

All are identical in construction, the difference being in the material and in ornamentation.

DDICES

	FRICES.	
No	.1 Gasometer, blue, black or maroon, highly	
	ornamented	30.00
No	, 2 Gasometer, painted and striped	25.00
No	. 3 Gasometer (No. 1 with sides of bell nickel-plated)	34.00
No	. 4 Gasometer, ornamented brass, polished and	
	lacquered	40.00
No	. 5 Gasometer, ornamented brass, nickel-plated,	45.00
	All prices include the Inhaler Support.	

The S. S. White Gasometer.

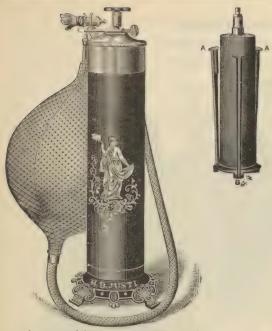
Patented March 25, 1879; Dec. 13, 1887; Feb. 14, 1888.

All parts coming in contact with water or gas are brass. Exterior of water tank finished in blue-black bronze.

The outfit includes Yoke and Rubber Tubing [1 ft.], Inhaler No. 3 with Inflatable Face-Piece, Inhaler Tubing [4 ft.], and Metal Connection, Wheel-key and Russianiron Jackets for the large and small cylinders, everything complete, ready to attach to gas cylinder. Directions for setting up and operating accompany each Gasometer.

PRICES.

Complete Apparatus, except Gas Cylinder and Gas	§72.00
" with Small Gas Cylinder, containing 100 gallons of Gas	
Complete with Large Cylinder, containing 450 gallons of Gas	00.00
Boxing, \$2.00.	



For use with the 100 gallon Cylinder, see Fig. 2. The rods, A, are hinged to a circular base, B. The rods are thickest at the top, and when the Cylinder is placed in the Holder the rods are forced against the Cylinder and hold [it firmly against turning.

The body of the Holder is black, japanned and handsomely ornamented with

various figures and designs.

The Rochester Dental Mfg. Co.'s No. 1. Gas Outfit.

This includes cast iron Tripod, japanned and ornamented, with steel arm for supporting Bag and Tubing. 100 gallons Gas in our Cylinder, with new Gas Valve as shown, wove covered Tubing, Rubber Gas Bag, No.2 Inhaler, Vitalized Air attachment, Cylinder, Yoke Key and small tubing complete, ready for use.

Price	e		\$30.	00
The	same	without	Vitalized Air	
ati	tachme	nt	23.	00

Justi's New Style Improved Cylinder Holder.

The cut represents the latest and best Cylinder Holder. It may seem a very simple matter to make a good Cylinder Holder, but to make one to conveniently hold two different sizes—500 gallons and 100 gallons—has proved quite difficult. In the one we now offer the objections are all overcome, and it combines beauty of design and finish with convenient adaptation to either size of Cylinder.

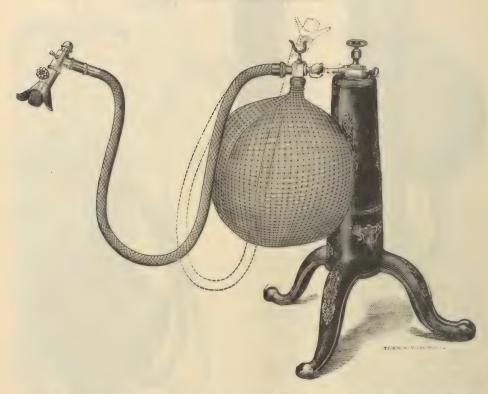
For the 500 gallon Cylinder it is only necessary to remove the cap at the top of the Holder and place the

Cylinder inside.



Yoke Attachment.

Made by The S. S. White Dental Mfg. Co.



With this appliance the bag is so suspended that, while giving free inlet and outlet to the gas, it is less liable to damage than when lying upon the table or floor. The metal connections furnished by us heretofore will fit this attachment, and any one having the tubing and bag arranged as in cuts of Surgeon's Cases can readily transfer them; care being taken to seal up the opening left by the removal of the small inlet tube.

The Yoke is provided with a holder for the inhaler when not in use, as shown by the dotted lines.

PRICES.

		WITH	100-	gai.	Cylinder	(filled)	, and	4 1/2 - ga	. Bag,	complete	as sho	W11\$31.00
	6.6	6.6	100	6.6	6.6	4.6	"	7 "	6.6	6.6	6.6	32.25
	6.6	6.6	500	6.6	6.6	6.6	6.6	11/ 11	6.6	6.6	4.4	45.50
		4.6	500	6.6	6.6		6.6	4/2	6.6	6.6	6.6	
	T 0							/				46.75
	Infla	itable	e Fac	ce-pa	ece on the	Inhale	er is J	54.00 es	ktra.			
	Flex	ible	Face	e-pie	ce, \$2.00 (extra.						
	Yoke Attachment separately, \$8.00											
5	Stand	only	for 1	100-g	al. Cylind	er						\$4.50
	4.6	4.6		00 .								7.00

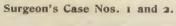
The price of 500-gallon outfit will vary somewhat according to the quantity of Gas in the Cylinder. They usually contain 450 gallons.

Fused Nitrate of Ammonia.

In small quantities, per pound......24 cents.
Reduced rate on large quantities.
Write for quotations.

Apparatus for Nitrous Oxide Gas.

Made by The S. S. White Dental Mfg. Co.





The complete apparatus is shown in cut, and consists of an iron Cylinder containing at least 100 gallons (usually more) of Nitrous Oxide, liquefied, to which is attached the necessary tubing, with gas bag and inhaler (either No. 1 or No. 2) the whole enclosed in a stout leather-covered case lined with velvet. The small stop-cock inserted in the tubing between the bag and Cylinder enables the operator, after having filled the bag, to shut off the gas and disconnect the bag from the Cylinder, if desired for use where it is not convenient to carry the Cylinder.

These cases are only made for 100-gallon Cylinders.

The case is made of well-seasoned wood, lined with velvet and covered with leather, and the mountings are nickel-plated. A stout cast-steel ring, neatly japanned with a heavy set-screw, clamps the Cylinder.

The No. I Case has a 41/2-gallon bag; the No. 2 Case a 7-gallon bag.

PRICES.

No. I Case, complete, as shown, with	filled Cylinder\$29.75
No. 2 Case,	31.00
Inflatable face-piece on the inhaler is \$	4.00 extra.
Flexible face-piece \$2.00 extra.	
For parts separately, see page 315.	

Upright Surgeon's Case, Nos. 3, 4, 5 and 6.

No. 3, Complete Apparatus, with 4½-gallon Bag, in stout Metal Case, covered with leather\$29.75	
No. 4, the same, but with 7-gallon Bag 31.00	
No. 5, Complete Apparatus, with 4½-gallon Bag, in stout Metal Case,	
handsomely Japanned	
Inflatable Face-piece on the Inhaler is \$4.00 extra; Flexible Face-piece, \$2.00 extra.	
For parts separately, see page 315.	



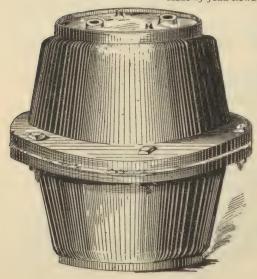
This is an excellent device for use in offices where the Gas is administered frequently. The Bracket may be attached to the window-casing or other woodwork. The whole arrangement will be found compact, convenient and ornamental.

PRICES.

Complete as shown, with 4½ gallon Bag and filled Cylinder
Complete as shown, with 7 gallon Bag and filled Cylinder
Inflatable Face-piece on the Inhaler, \$4.00 extra; Flexible Face-piece, \$2.00 extra.
Wall Cylinder Bracket, separate

Rowan's Iron Retort.

Made by John Rowan, St. Louis, Mo.



Avoids buying and breaking Glass Retorts.

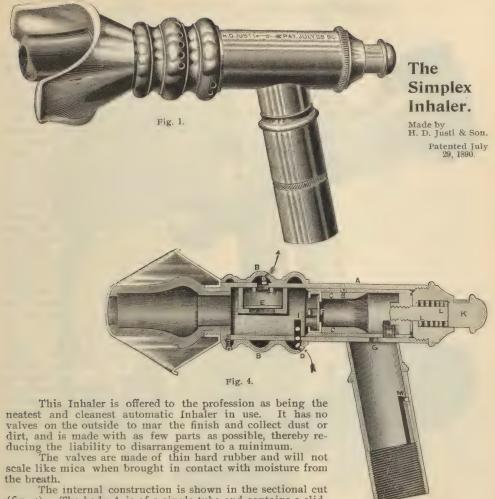
A boon to dentists who have used it for years.

Do you make your own N. O. Gas? If so, this Retort would be a good addition to your laboratory.

Used for years by some dentists, and is still giving them satisfaction. It will fill any gasometer several times.

Manufactured of heavy iron, porcelainlined.

PRICES.



The internal construction is shown in the sectional cut (fig. 4). The body A is of a single tube and contains a sliding tube having an opening H. When pressed forward by the

thumb-piece K and rod L, a communication is made through G to the gasometer and the opening I is closed to the air, which is admitted through the holes D in the ring B, as indicated by the arrow.

The inhaling valve F and its seat C C are inserted in the sliding tube and are removed with it when taken apart for cleaning, which is simply done by unscrewing the end in the tube containing the parts K and L. The spring around the rod L keeps the gas inlets G and H closed when not in use.

The exhaling valve is attached to the inner surface of the tube A and has an opening D through the ring B, as indicated by the arrow. The holes in the ring B are made at an angle of about 45 degrees, thereby preventing any disagreeable exhalations being driven into the face of the patient.

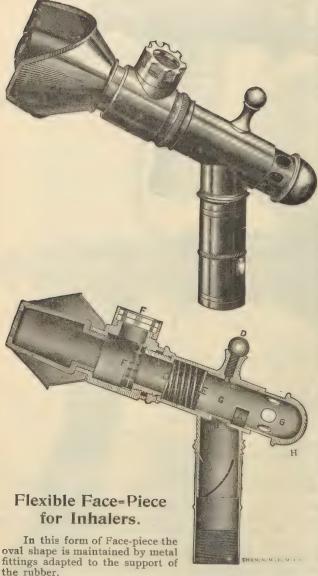
The rubber tube from the gasometer or bag is attached by the thread shown and is made perfectly secure by the bayonet joint M, which is quickly removed when necessary.

The Inhaler is finely polished and nickel-plated and is furnished as illustrated or with the flexible or inflated soft rubber hoods.

PRICES.

Nitrous Oxide Inhaler No. 3.

Made by The S. S. White Dental Mfg. Co. Patented December 13, 1887; February 14, 1888.



It is almost entirely automatic in its action, and requires the use of but one hand, the inlet valve being opened by a slight pressure of the thumb, so that the gas can be turned on without the patient's knowledge. Upon the removal of the pressure, the valve closes automatically and shuts off the gas.

The sectional view shows

the internal construction. opening, B, underneath the body of the Inhaler admits the gas through a similar opening, A, in a sliding tube, GG, fitted inside of and projecting beyond the rear portion of the main body. The projecting portion is perforated for the admission of air, and its outer end is closed by a cap. At the inner end of the sliding tube is a coil spring, EE, abutting against a shoulder in the body of the Inhaler. This spring holds the sliding tube in the position shown in the cuts closing the inlet, B, when the gas is not being used. Pressure on the cap compresses the spring, closes the perforations for the admission of air, and brings the opening, A, over B, affording a free flow of gas to the mouthpiece through the inhaling valve. The sliding tube is prevented from rotating by the screw-pin, D, which works in a slot, C. inhaling and exhaling valvesthe former internal, the latter external - consist of two thin disks of mica, FF, which are enclosed in circular open cages. The inhaling valve is opened in respiration by being drawn against the front of the cage, the exhaling valve being closed by the pressure of the outside In expiration both disks are thrown against the further ends of the cages, opening the exhaling and closing the inhaling.

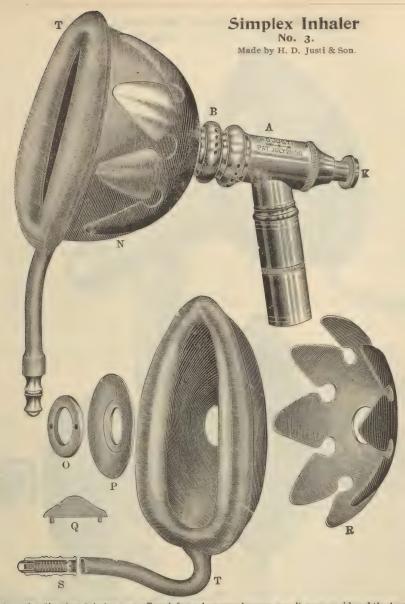
The rubber piece is plain, without inflating device, and the complete attachment may be used on the No. 3 Inhaler illustrated above. In ordering, customers should state for which Inhaler it is wanted

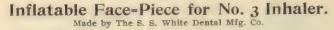
A New Anæsthetic Manual.

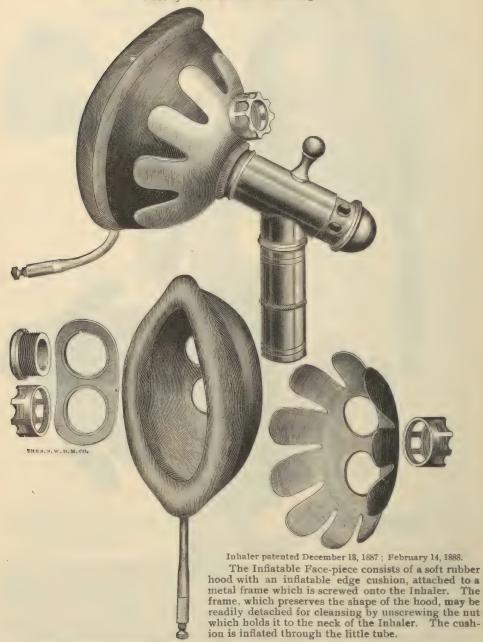
NITROUS OXIDE—Its Properties, Method of Administration and Effects.

By H. S. Guilford, A. M., D. D. S., Professor of Operative and Prosthetic Dentistry at the Philadelphia Dental College.

Sent by mail on receipt of price, \$1.00.



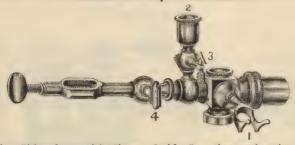




Turnbull's Artificial Anæsthesia.

The Advantages and Accidents of Artificial Anæsthesia, by Lawrence Turnbull, M. D., Ph. G., Aural urgeon to Jefferson College Hospital, &c. Second edition, revised and enlarged. With 27 illustrations of various forms of inhalers, etc., and an appendix of over 70 pages, containing a full account of the local anæsthetic hydrochlorate of cocaine. Third edition. Cloth, \$3.00.

Dr. G. H. Hurd's Chloroform Mixer, or Vitalized Air Cup Attachment.



For combining Chloroform with Nitrous Oxide Gas, thus prolonging anæsthesia, without increasing danger to the patient, thereby allowing the operator sufficient time to perform his work with care and precision—requiring less gas, and leaving no deleterious effects. With this attachment the Gas can be given with the same facility as without it, or a small amount of the Chloroform Mixture may be administered, it being under complete control of the operator.

The Chloroform Mixture is composed of equal parts of Chloroform and alcohol.

DESCRIPTION.

Fig. 1.—Holder for Inhaler when not in use. Fig. 2.—Reservoir for Chloroform Mixture.

Fig. 3.—Stop Cock with chamber holding four drops of the fluid mixture, which is received from the Reservoir.

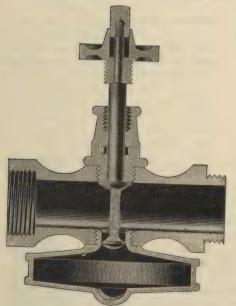
Fig. 4.—Stop Cock for shutting off gas.

PRICES.

for an additional price of \$6.00.

Snow's Chloroform Mixer.

Patented February 24, 1885.



For attachment to Nitrous Oxide Apparatus. By means of this device, a small quantity of Chloroform vapor can be added to Nitrous Oxide Gas, and its anæsthetic effect thereby intensified and prolonged. Its advantage over other appliances of the kind lays in the fact that it gives perfect control of the vapor; it being entirely within the discretion of the operator whether it shall be given or withheld, or even discontinued after its administration has commenced.

Apparatus is shown in section in the annexed engraving. Its operation is simple and easily understood. The Chloroform is contained in a receptacle below the passage for the gas from the gasometer or bag to the inhaler, and is securely held by depressing and screwing fast the handle. When the handle is raised, as shown in the illustration, a little Chloroform is brought into the gas passage on the wicking, as shown. If more is required, the handle is depressed and again raised; or the supply is cut off at any moment by depressing the handle.

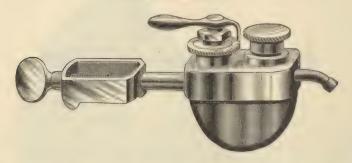
PRICE.

Snow's Chloroform Mixer......\$5.00

MANUFACTURED ONLY BY THE PATENTEE,

GEORGE B. SNOW, BUFFALO, N. Y.

The Rochester Dental Mfg. Co.'s Vitalized Air Attachments.



This Attachment is made with yoke to attach to the Gas Cylinder. The metal cap is then unscrewed and the Chloroform mixture poured into it and the screw cap replaced, when it is ready for use. By means of the small handle, the pointer is turned to any desired figure on the register, so that wanting to give only clear Gas, you turn the pointer to Gas; or if you wish to give much or little of the Chloroform, the pointer is turned as desired, thus having it under your immediate control. This is found very desirable and sometimes necessary in cases where it is found otherwise impossible to get patient under the Anæsthesic condition. This is the only Attachment made that can be sealed perfectly air tight, and the Chloroform retained an indefinite period without evaporating.

Price, complete......\$8.00



Patent applied for.

Isn't it Strange

Some person hasn't thought of this before? It is a cover to fit over the top of the local anæsthetic bottle. You push the needle through the rubber, invert the bottle as shown, draw the piston, and there you are. You don't spill a drop. You use the last drop. You don't have to bother with any cork. The bottle is always air tight. It is always ready for use. The stopper is cup shaped on top. That is what the patent covers. It is the important feature—the cup shape.

Price, each.....25c.

TRADE SUPPLIED BY

LEE S. SMITH & SON,

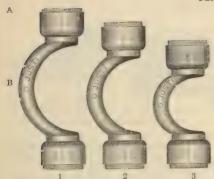
GENERAL AGENTS,

DENTAL DEPOT,

PITTSBURG, PA.

Nevius' Reversible Mouth Props.

Patented May 22, 1883.



These Mouth Props are made of nickeled brass, with cork tips.

A is the cup into which the tips are neatly fitted.

B is the reversible standard, on either end of which the cups A are swiveled.

The standard may be reversed from right to left or from left to right, as the case may require, while the brace is still retained firmly between the teeth, thus enabling the operator to extract the lower molars on both sides of the jaw while the patient is under one influence of the gas. If the greater number of teeth, or the most difficult ones to extract, are on the right side of the jaw, place the prop between the incisors, with the curve to the

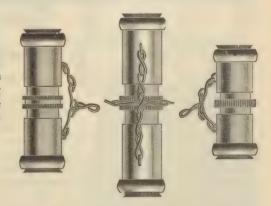
left, before administering the gas, or vice versa. As soon as the teeth on the right side are removed, reverse the standard with the thumb and forefinger of the left hand to the right side of the mouth, and proceed to extract the left molars. By the use of this prop the mouth is not only kept open, but plenty of room is given and a better opportunity afforded to extract on both sides of the jaw than with any other prop that can be used. They are made in sets of three, differing only in length.

Price\$1.00 each, or \$2.50 for the set.

Davis Mouth Props.

Used in administering anæsthetics. Brass Cylinder and Plugger, with Spiral Spring and Rubber Cushion, on each end. Three sizes, connected by small chain for convenience in adjusting. All nickel-plated.

Price, per set of three.....\$2.50





Daintree's Adjustable Mouth Prop.

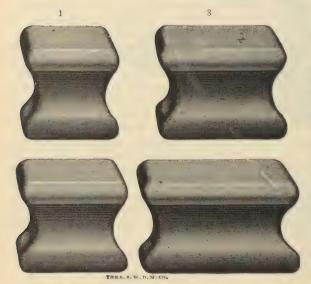
Made by The S. S. White Dental Mfg. Co. Patented September 10, 1889.

This Mouth Prop combines facility of lengthwise adjustment to suit the "open" of the jaws with a spring which affords the necessary elasticity. With the spring compressed the length at the shortest adjustment is $1\frac{3}{16}$ inches; at the longest, $1\frac{1}{2}$ inches. One head screws into the body, around which the other swivels, an elastic spring being confined between the swiveling-head and the body. The heads are cushioned with cork, and there is a ring for the attachment of a retaining cord.

Soft Rubber Bite-Blocks.

Made by The S. S. White Dental Mfg. Co.

Patterns supplied by Dr. S. H. Guilford.



Being elastic, they cannot injure the frailest tooth by being bitten upon.

Their resilience will open the jaws, if partially closed, as soon as muscular relaxation takes place.

Being grooved, they cannot fall into the mouth or be pressed out of place by the tongue.

They are too large to pass back into the pharynx or be swallowed, and they cannot be broken or injured by biting.

They do not need to have a string attached to them, and are readily removed with a crooked finger.

Each block can be set at two heights, and can be placed at any point between the jaws without likelihood of slipping.

Price, each.....25c.



Rubber Aprons for Dentists.

INCREASE IN SIZE—NO INCREASE IN PRICE.

To add to the efficiency of our Rubber Aprons, we have increased their length a quarter of a yard. They are now made 43 inches long and 34 inches wide at the middle line,—big enough to afford ample protection to the clothing, not big enough to interfere with freedom of movement. Can be put on and taken off almost instantaneously.

Made of rubber cloth, and nicely finished, with the edges bound.

Price, each......75c.

Foot-Piece for Cylinders.

The bottom of the Cylinder is set into the foot-piece, and the wedge forced between the Cylinder and one of the upright supports to take up any play. So placed the Cylinder is held firmly and steadily, and the upright position is reckoned by some to permit a freer flow of the gas.

Price, Cylinder Base, including Wedge......25c.



Metal Connections for Gas-Bags.

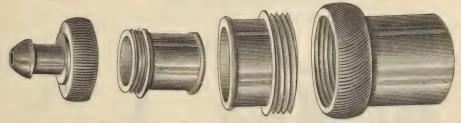
Made by The S. S. White Dental Mfg. Co.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.



The tubing and bag are joined by metallic screw-connections, as shown above. their use any one can attach either tubing or bag when necessary.

DIRECTIONS.

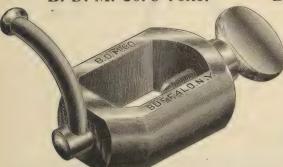
Figs. 1 and 2 connect the small end of bag to the rubber tubing. Figs. 3 and 4 connect the large end of bag to the covered tubing.

Insert Fig. 1 in the rubber tubing, and screw Fig. 4 over the covered tubing.
In inserting Figs. 2 and 3, bind with copper wire or good strong twine, which may be neatly covered with material corresponding in appearance to that of the bag.
The parts must be screwed together until firmly seated on the leather washers.

Price, per set......5oc.

B. D. M. Co.'s Yoke.

B. D. M. Co.'s Wheel Key.

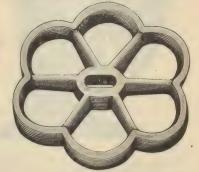


FOR MAKING CONNECTION TO GAS CYLINDERS.

Made very heavy and strong, handsomely finished and nickel plated.

PRICE.

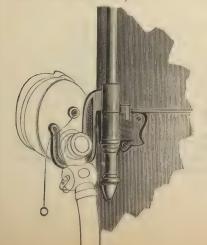
B. D. M. Co.'s Yoke,\$1.50



FOR OPENING THE VALVES OF NITROUS OXIDE CYLINDERS.

This key is 23/4 inches in diameter, larger than those usually sold for the purpose, and the irregular shape of its edge affords a strong grip for the hand.

Price, B. D. M. Co.'s Wheel Key, 25c.



Lewis Inhaler Support.

FOR ATTACHMENT TO LEWIS GASOMETER.

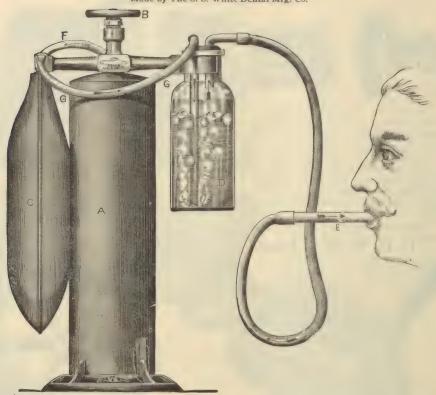
The engraving illustrates a support to be slipped on one of the upright guide rods of the Lewis Gasometer, for holding the Mouth-piece or Inhaler when not in use. The support will hold any Inhaler in the market, and can be attached to any gasometer of our manufacture. It will be found a great convenience.

PRICE.

Lewis Inhaler Support, nickel-plated......50.

Pure Oxygen and Apparatus for its Therapeutic Administration.

Made by The S. S. White Dental Mfg. Co.



INHALATION APPARATUS.

Both in Apparatus for Inhalation and Enema, the administration of the gas is absolutely under control of the operator.

Pamphlets fully describing methods of use, etc., cheerfully mailed upon application.

PRICES.
Inhalation Apparatus\$ 5.00
Small Cylinder, 40 gallons capacity
40 gallons Gas, either Pure Oxygen or Mixed Oxygen and Nitrous Oxide, 2.00
Foot-piece for Cylinder, see page 330
Complete Apparatus, Cylinder and 40 gallons Gas
Inhalation Apparatus
Large Cylinder, 100 gallons capacity
100 gallons Gas, either pure or mixed.
Complete Apparatus, Cylinder and 100 gallons Gas\$19.00
complete apparatus, cymuter and 100 gamons Gas

Junker Inhaler.

By forcing oxygen instead of air through chloroform, perfect anaesthesia is produced. The Junker Chloroform Inhaler was originally designed for forcing air through the chloroform by pressure upon a rubber bulb. By dispensing with the bulb and attaching the cylinder, most gratifying results have been had by the leading surgeons of the country.

Extracting Forceps.

Forceps of some grades sell all the way from fifty cents to \$1.50 per pair. "For people who like that sort of thing that's just the sort of thing they will like."

A cheap Forcep is the poorest sort of economy. A Forcep that is too cheap in price is sure to be cheap in quality. We have Forceps of two sorts. Our own and those made by The S. S. White Dental Mfg. Co. The patterns are the same.

Our Forceps are subjected to the most careful tests any person could devise. When we place them on sale we know they are as good as can be made. We never stamp our name upon an inferior article. Our name is stamped upon each Forcep.

The best steel to be had is in them. Every ounce of it is high test. If any forcep should prove soft in use or should be broken and show a flaw in the metal, that Forcep will be exchanged for a new one, just as soon as the transfer can be made.

Our Own Brand.

PRICES.

All numbers	except those noted below	52.00
Nos. 66, 67,	85, 86	2.25
Nos 78, 80,	81, 82, fancy handle	2.50
Nos. 88 R. 8	8 L	2.50

All our Extracting Forceps are nickel-plated. Crocus polished Forceps made only on order.

S. S. White Dental Manufacturing Co.'s Make.

PRICES.

All numbers except those noted below	\$2.50
Nos. 29, 30, 62	2.25
Nos. 66, 67, 85, 86	3.00
Nos. 78, 80, 81, 82	3.50
Nos. 88 R, 88 L	3.25
The Common Sense Forceps	3.00

Root Forceps.



No. 1 L. S. Root, Upper Front. Straight. Long Slender Beaks.



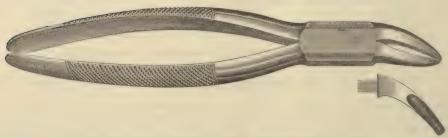
No. 1 L. Root, Upper Front. Straight. Large.



No. 1 M. Root, Upper Front. Straight. Medium.



No. 1 S. Root, Upper Front. Straight. Small.



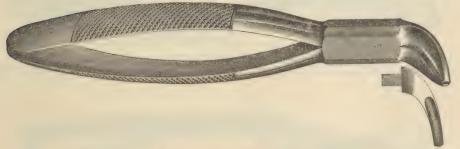
No. 2 L. Root, Upper or Lower. Half Curved. Large.



No. 2 M. Root, Upper or Lower. Half Curved. Medium.



No. 2 S. Root, Upper or Lower. Half Curved. Small.



No. 3 L. Root, Lower. Full Curved. Large.



No. 3 M. Root, Lower. Full Curved. Medium.



No. 3 S. Root, Lower. Full Curved. Small.



No. 35. Root, Upper. Bayonet Shape.



No. 65. Root, Upper. Bayonet Shape. Slender Beaks.

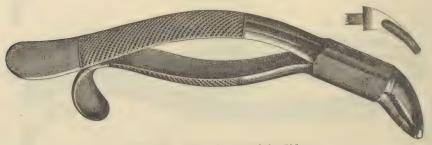
For difficult roots in upper jaw, and roots of front teeth in lower jaw.

Designed by Dr. B. F. Arrington.



No. 86. Root, Upper. Bayonet Shape.

The ends of the handles are rounded to fit the palm of the hand, so that the beaks can be easily forced between the tooth and the alveolus. Designed by Dr. Henry I. Dorr.



No. 50 R. Root, Lower Right Side.



No. 50 L. Root, Lower Left Side.



No. 49. Root, Lower Molar. Either Side.

For extracting lower molars with crowns liable to fracture under direct application of the forceps.



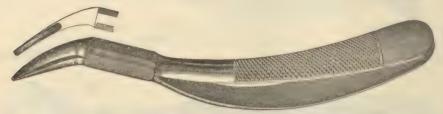
No. 103. Root, Lower. Half Curved.

Resembles No. 50, right side, but has smaller beaks, and greater curve to the handles.



No. 87. Root. Universal. Designed by Dr. J. L. Baker.





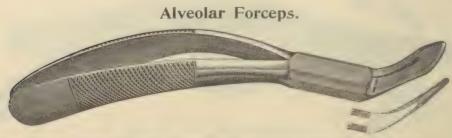
No. 69. Fragment, or Small Root. Universal. Designed by Mr. Tomes.



No. 63. Spicula. Universal.



No. 107. For the extraction of roots broken off or decayed at one side under the gum while the other side is in good condition.



No. 64. Alveolar Cutting, Front. For cutting-away process after extraction.

Alveolar Forceps.—Continued.



No. 43. Alveolar. Long Beak. Straight.



No. 42. Alveolar. Upper-back. Long Beak.



No. 41. Alveolar. Long Beak. Half Curved.



No. 44. Alveolar. Long Beak. Full Curved.

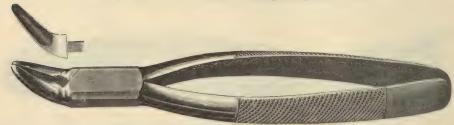


No. 52. Alveolar. Lower, Either Side. Designed by Dr. Parmly.

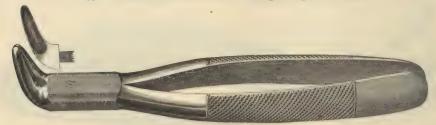
Alveolar Forceps.—Continued.



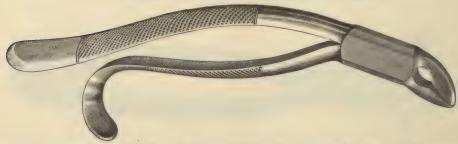
No. 33. Alveolar. Straight. Designed by Dr. Parmly.



No. 39. Alveolar. Half Curved. Designed by Dr. Parmly.



No. 34. Alveolar, Full Curved. Designed by Dr. Parmly.



No. 85. Alveolar Root. For Lower Molars and Bicuspids. Designed by Dr. J. D. Thomas.



No. 105. Alveolar. Bayonet shape. With beaks like Dr. Kell's Bicuspid Forceps, smooth all over, without cutting-edges, but with thin points.

Alveolar Forceps.—Continued.



No. 61. Alveolar Cutting, Back. Bayonet Shape. For cutting-away process after extraction.



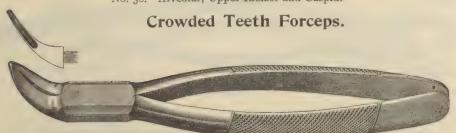
No. 32. Alveolar. Bayonet Shape. Designed by Dr. Parmly.



No. 32 A. Alveolar. Bayonet Shape. Small.

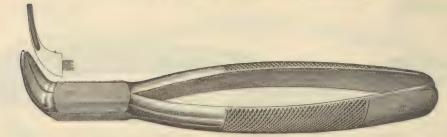


No. 58. Alveolar, Upper Incisor and Cuspid.



No. 36. Crowded Teeth. Narrow Beaks. Half Curved.

Crowded Teeth Forceps.—Continued.

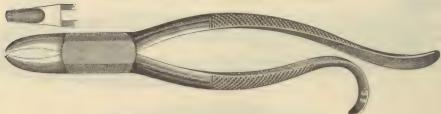


No. 37. Crowded Teeth. Narrow Beaks. Full Curved.



No. 38. Crowded Teeth. Narrow Beaks. Straight.

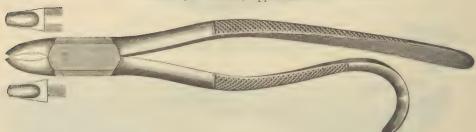
Incisor and Cuspid Forceps.



No. 13. Incisor, Upper. Also made with Straight Handles.



No. 48. Incisor, Upper Lateral.



No. 97. Upper Cuspid. Short Beaks. Designed by Dr. James H. Harris. No. 97 is also made a trifle narrower and shorter in the beaks, and with half-inch longer handles. We designate it as 97 A.

Incisor and Cuspid Forceps.—Continued.



No. 46. Incisor, Lower. Hawk-Bill. (Crowded Teeth).



No. 9. Incisor, Lower. Hawk-Bill.

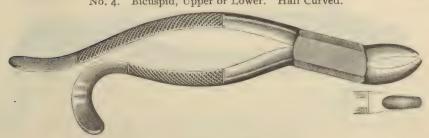
Bicuspid Forceps.



No. 14. Incisor or Bicuspid, Lower. For Either Side.

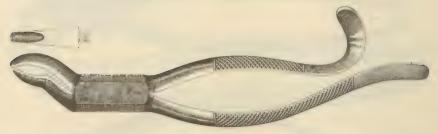


No. 4. Bicuspid, Upper or Lower. Half Curved.



No. 11. Bicuspid or Cuspid, Upper.

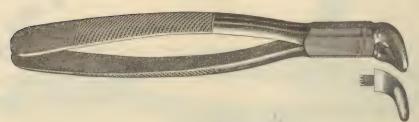
Bicuspid Forceps.—Continued.



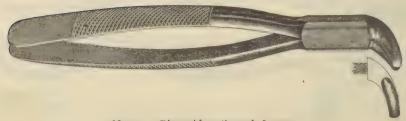
No. 40. Bicuspid or Incisor.



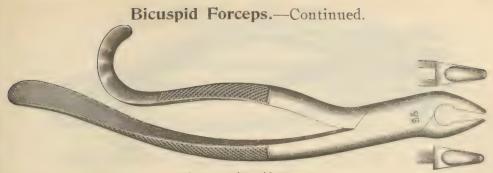
No. 26. Bicuspid, Upper. Safety.



No. 25. Bicuspid, Lower. Safety.



No. 21. Bicuspid or Cuspid, Lower.

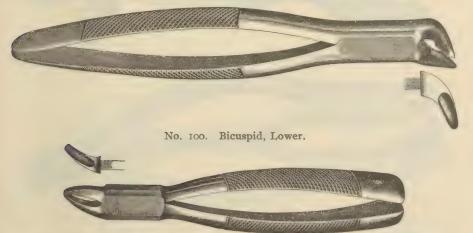


No. 99. Bicuspid, Upper.

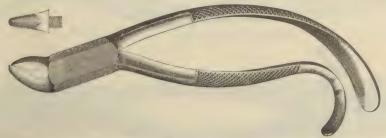
Two sizes, A and B, alike in all respects except that the beaks of B are slightly narrower

than those of A. Cut shows beaks of A.

The beaks of these Forceps (Nos. 99 and 100) are very smooth all over, without cutting-edges, but with thin points, the inner surfaces of which are beveled outward slightly. In use the beaks are forced beneath the gum well up onto the root, when the pressure caused by closing the handles lifts the tooth out of its socket. Care must be taken to avoid bringing any leverage upon the delicate points, as otherwise they may chip.



The curve of the beaks of these Forceps gives them a wide range of application. The short, thick-end handles afford facility for applying the power with the palm of the hand in direct line with the arm, the beaks being thus readily forced up along the root, which they grasp effectively. The instrument will be found especially valuable in extraction under nitrous oxide, as its use will obviate the necessity of frequent changes. The handles are so powerful as compared with the beaks that care must be exercised in their use. Devised by Dr. H. A. Hull.

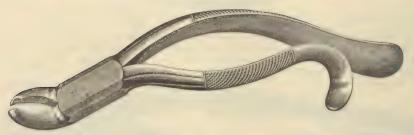


No. 102. Upper Bicuspid. Centrals, Laterals and Cuspids are frequently extracted with these Forceps. Devised by Dr. E. B. Goodall.

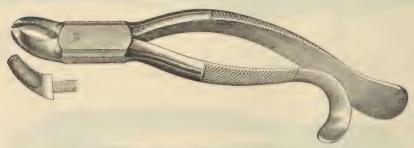
Upper Molar Forceps.



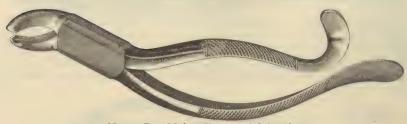
No. 18 R. Molar, Upper. Right Side. Designed by Dr. Chapin A. Harris.



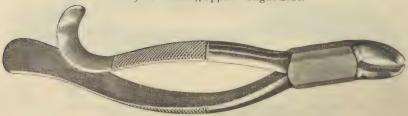
No. 18 L. Molar, Upper. Left Side. Designed by Dr. Chapin A. Harris.



No. 24. Molar, Upper. Either Side.



No. 19 R. Molar, Upper. Right Side.

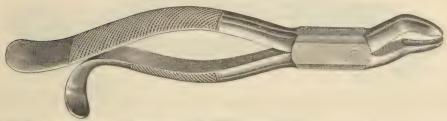


No. 19 L. Molar, Upper. Left Side.

Upper Molar Forceps,-Continued.



No. 68. Molar, Upper. Either Side. Straight. Designed by Dr. T. C. Stellwagen.



No. 53 R. Molar, Upper. Right Side. Bayonet Shape. Also made with Straight Handles.



No. 53 L. Molar, Upper. Left Side. Bayonet Shape. Also made with Straight Handles.

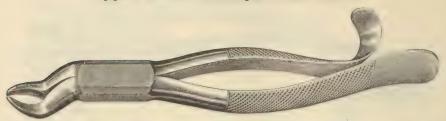


No. 88 R. Molar, Upper. Right Side. Three Beaks. Also made with Hook Handles.



No. 88 L. Molar, Upper. Left Side. Three Beaks. Also made with Hook Handles.

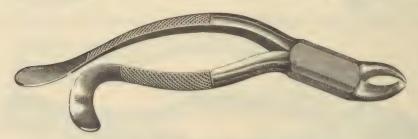
Upper Molar Forceps.—Continued.



No. 57 R. Molar, Upper. Right Side. Horn Beak. Bayonet Shape.
Also made with Straight Handles.



No. 57 L. Molar, Upper. Horn Beak. Bayonet Shape. Also made with Straight Handles.



No. 20 R. Molar, Upper. Right Side. Horn Beak.

These Forceps (No. 20 R. and L), with No. 16, make an invaluable set for the extraction of Molar roots when the crowns are decayed below the gum margin.



No. 20 L. Molar, Upper. Left Side. Horn Beak.

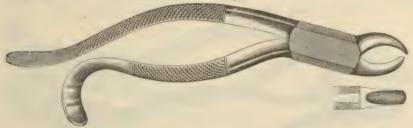


No. 59 R. Molar, Upper. Right Side. Horn Beak.

Upper Molar Forceps.—Continued.

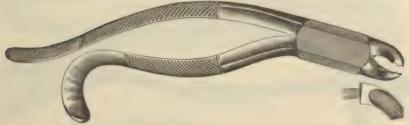


No. 59 L. Molar, Upper. Left Side. Horn Beak.

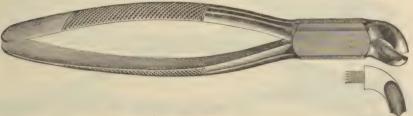


No. 45. Molar, Upper. Either Side. Horn Beak.

Lower Molar Forceps.



No. 15. Molar, Lower. Either Side. Designed by Dr. Chapin A. Harris.

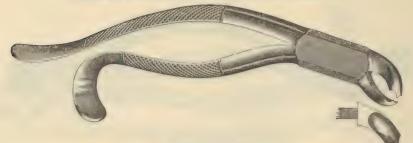


No. 17. Molar, Lower. Either Side,

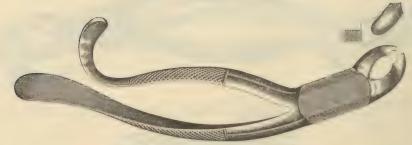


No. 47. Molar, Lower. Either Side. Designed by Dr. Hutchinson.

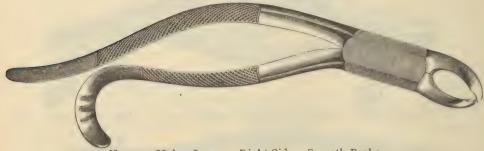
Lower Molar Forceps.—Continued.



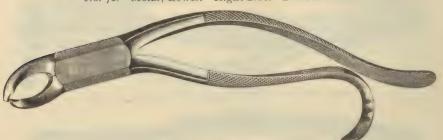
No. 28 R. Molar, Lower. Right Side.



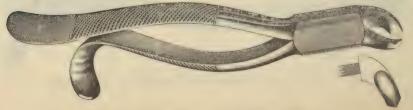
No. 28 L. Molar, Lower. Left Side.



No. 72. Molar, Lower. Right Side. Smooth Beaks.



No. 72 L. Molar, Lower. Left Side. Smooth Beaks.



No. 70. Molar, Lower. For Either Side.

Lower Molar Forceps.—Continued.



No. 71. Molar, Lower. For Either Side. The curves in the handles are the reverse of those of No. 70, so as to bow over the lower incisors. The advantage of this form is that all the force of the hand tends to draw the tooth out of its socket.



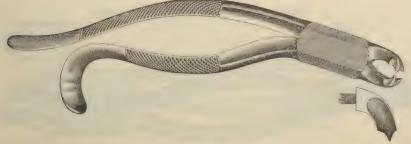
No. 54. Molar, Lower. Left Side. This pair of Forceps, with No. 28 for the right side, makes a very efficient set for Lower Molars.



No. 27. Molar, Lower. Either Side.

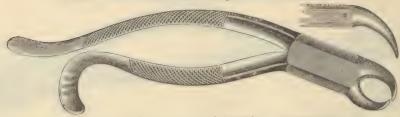


No. 51. Molar, Lower. Either Side. Designed by Dr. Wolverton.

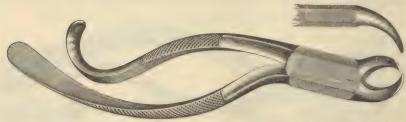


No. 60. Molar, Lower. Either Side. Designed by Dr. Wolverton.

Lower Molar Forceps.—Continued.



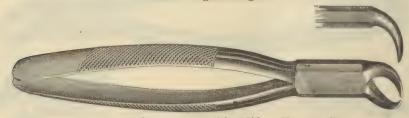
No. 55. Molar, Lower. Right Side. Horn Beak.



No. 56. Molar, Lower. Left Side. Horn Beak. No. 55 for the Right Side and No. 56 for the Left Side make a very efficient set for Lower Molars.

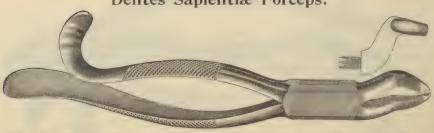


No. 16. Molar, Lower. Either Side. Horn Beak. No. 16, with No. 20, R. and L., makes an invaluable set for the extraction of molar roots when the crowns are decayed below the gum-margin.



No. 23. Molar, Lower. Either Side. Horn Beak.

Dentes Sapientiæ Forceps.

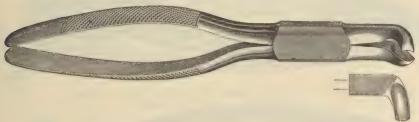


No. 10. Third Molar, Upper. Either Side. Also made with Straight Handles.

Dentes Sapientiæ Forceps.—Continued.



No. 104. Third Molar, Upper. Either Side. Like No. 10, but with beak at a different angle.



No. 22. Third Molar, Lower. Either Side.



No. 8. Third Molar, Lower. Either Side.



No. 98. Third Molar, Lower. Either Side.



No. 5. Third Molar, Lower. Either Side (Physick's).

Excising Forceps.



No. 12. Excising, Upper. Straight Beaks.



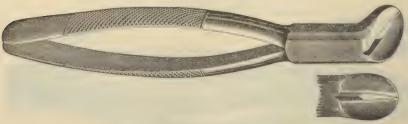
No. 31. Excising, Lower. Curved Beaks.



No. 31 A. Excising, Lower. Curved Beaks. Like No. 31, but with narrow beaks for preparing the root and cutting off posts in mounting crowns.



No. 106. For excising small portions of partially decayed crowns, but not heavy enough for excising entire crowns. Also useful for cutting off pins, etc.



No. 6. Splitting or Separating.

Excising Forceps.—Continued.



No. 67. Combined Root, Incising, Separating, Splitting and Elevating, Upper. Designed by Dr. T. C. Stellwagen.



No. 66. Combined Root, Incising, Separating, Splitting and Elevating, Lower.
Designed by Dr. T. C. Stellwagen.

Children's Forceps.



No. 30. Children's Teeth. Straight.

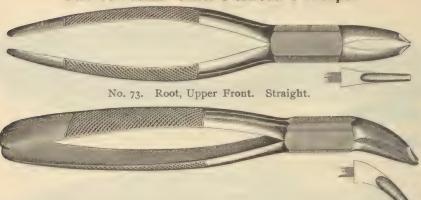


No. 29. Children's Teeth. Curved.



No. 62. Children's Teeth and Root. (Universal).

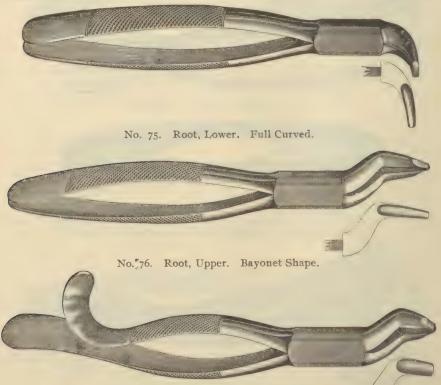
Sub-Alveolar Thin Pointed Forceps.



No. 74. Root, Upper or Lower. Half Curved.

These Forceps (Nos. 74. Root, Opper of Howel. Ham Curved.

These Forceps (Nos. 78 to 77) are designed to pass into the tooth socket, to bring away roots or teeth the crowns of which are entirely decayed and broken off. The beaks are perfectly smooth inside, and being also very thin, and the outside slope very gradual, they may, after insertion between the root and alveolus, be forced up so as to grasp and hold on to the sound portion of the root, thus securing its safe extraction. The peculiar merit of this style of Forceps and method of extracting is that the natural edges of the walls of the alveolus are saved, and these on healing make the fullest and least irritable basis for artificial dentures. In using these Forceps care must be taken that the beaks grasp the root firmly before force is applied; otherwise the delicate points may chip. The points are not intended to bear the strain of extraction. Their office is simply to prepare the way for securing a firm grasp with the beaks proper. Every pair is thoroughly tested and it will do all that we claim for it, but we cannot hold ourselves responsible for breakages caused in disregard of instructions. gard of instructions.

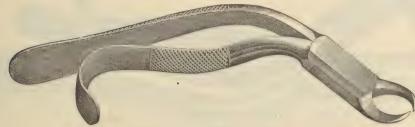


No. 77. Third Molar, Upper. Either Side.

Prof. J. A. Watling's Forceps.



No. 78. Molar, Lower. Either Side.



No. 79. Molar, Lower. Either Side. Horn Beak.



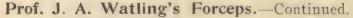
No. 80. Molar, Upper. Right Side.



No. 81. Molar, Upper. Left Side.



No. 82. Bicuspid and Cuspid, Lower. Right Side.





No 83. Bicuspid, Lower. Left Side.



No. 84. Alveolar, Lower. Either Side.

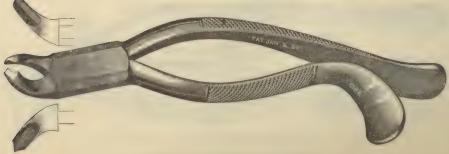
The Common=Sense Forceps. Price, per Pair, \$3.00.



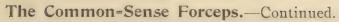
No. 201. For Upper Lateral Incisors, Bicuspids, and Roots. Either Side.



No. 213. For Upper Central Incisors and Cuspids. Either Side.



No. 218 R. For Right Upper Molars.





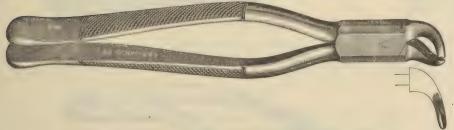
No. 218 L. For Left Upper Molars.



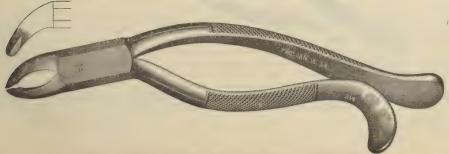
No. 210. For Upper Third Molars. Either Side.



No. 265. For Upper Roots and Spiculæ. Either Side.

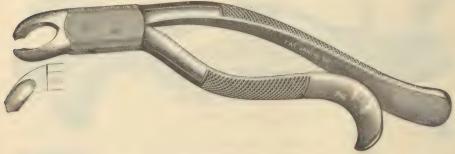


No. 203. For Lower Incisors and Single Roots. Either Side.



No. 214. For Lower Cuspids and Bicuspids. Either Side.

The Common-Sense Forceps.—Continued.



No. 215. For Lower Molars. Either Side.

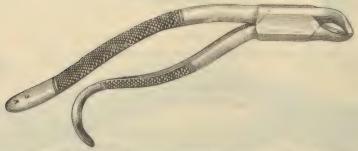


No. 222. For Lower Third Molars. Either Side.



No. 235. For Upper Bicuspids and Single Roots.

The Patterson Special Extracting Forcep.



For extracting Lower Incisors and Roots. Beaks are smooth and have a full curve down. Handles curved same as Universal Lower No. 15.

Price.....\$2.00

Three Beak Forceps.

Curved Handles.

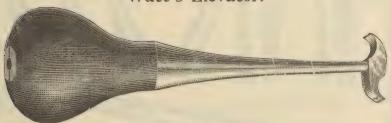


No. 881/2. Right.



No. 881/2. Left.

Watt's Elevator.



The shape of this Elevator readily suggests to the practical dentist the use to which it can be put. Every extractor should have one.

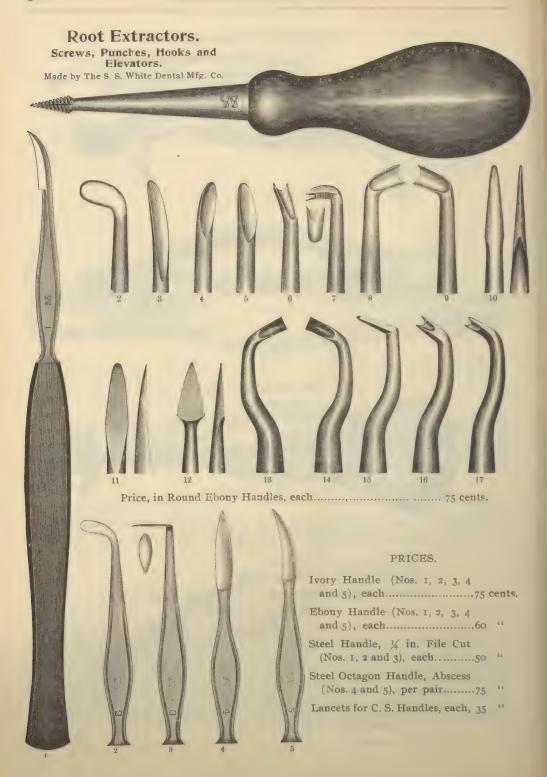
Price......\$1.50

Third Molar Elevators—Right and Left.

Designed by Dr. J. F. Canine.

Specially adapted for the extraction of third molars in either jaw. These instruments have peculiar shapes, double-grooved blade, with one rounded and one sharp edge, these being reversed on the opposite side. The blade is forced from the buccal side as a wedge between the third molar and the molar next to it, with the lower sharp edge presenting toward the neck of the third molar, and the upper toward the crown of the adjoining tooth. Twisting the handle slightly in the proper direction engages the blade under the border of the enamel of the third molar, and the tooth is then readily elevated out of its socket in the direction of the curvature of its roots, the adjoining tooth serving as a fulcrum. The insertion of the instrument is accomplished with little inconvenience to the patient because of its wedge-shape and the separator-like edge of the point.

Price, Round Handle, each......\$1.75

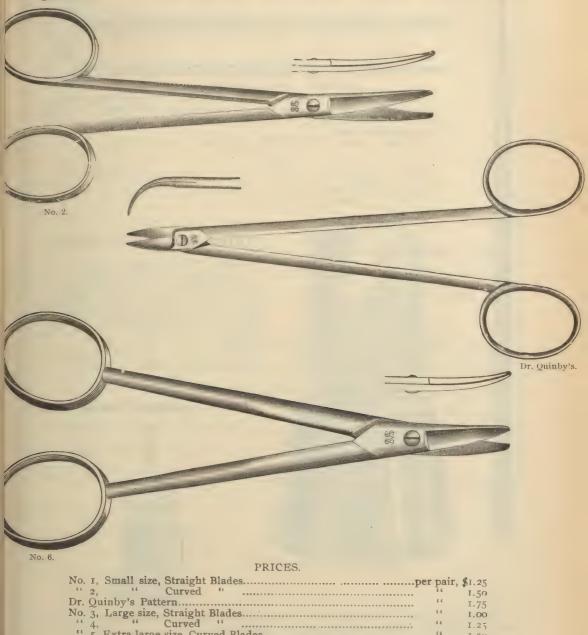


I.50 I.75

Gum Cutting Scissors.

Made by the S. S. White Dental Mfg. Co.

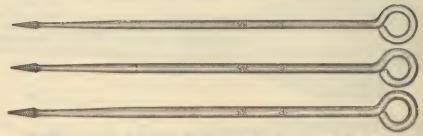
Lack of space prevents the illustration of our entire line of these instruments. We illustrate only the more popular forms. We have them all. Prices quoted are for the highest grade only.



" 5, Extra large size, Curved Blades....

Morrison Reamer and Screw-Portes.

Made by The S. S. White Dental Mfg. Co.



The Reamer is used to enlarge the openings into the canals of badly decayed roots to permit the entrance of the Screw-Porte for their extraction. Three sizes of the Screw-Portes are made, to suit differences in roots. The Reamer is made only on Handles shown.

Not kept in stock for Cone-Socket Handles.

PRICES.

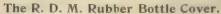
Reamer, nickel-plated		75	cents.
" Blued		50	
Screw-Portes, nickel-plated		75	6.6
" Blued	6.6	50	6.6



Office Preparation Bottle.

Suggested by Dr. L. C. Ingersoll, Keokuk, Iowa.

This Bottle is especially adapted for Varnish, Liquid Silex, Collodion, or any preparation in which a brush is used. The top of the Bottle is of ground glass, so there is no loss of contents by evaporation. Cut is exact size of the small bottle.





This soft Rubber Cover is made to fit over the neck of silex and varnish bottles, so as to keep them air tight. Easily removed and very convenient.

Price of Liquid Silex or Varnish, with Rubber Cover and Brush......35 cents.

... Porcelain Teeth...

This is the most important part of our business. There is more capital invested in our tooth department than in any other department. It is the care we have given it that has made our reputation.

There is not another house in the country with a better selected tooth stock or with more competent people, trained, drilled and educated to make intelligent selections. There may be others as good. We don't know who or where they are. We have never heard of them. There are none any better. There couldn't be.

Porcelain Teeth.

QUALITY. No person ever seriously questions the position of White's, Justi's, Sibley's, Wilmington and Ash & Son's Teeth. Claims of superiority have been made—but not seriously. There are more of these makes of Teeth being sold each successive year.

The price of a Tooth depends upon its quality—solely upon it. There is no other thing to consider.

Any make of Teeth may be ordered from these illustrations. In ordering White's Teeth, particularly Logan Crowns, use White's shade ring. In ordering Sibley's Teeth, use Sibley's shade ring. Other makes of Teeth may be ordered from either of these rings.

Always specify whether gum or plain, vulcanite or plate Teeth are desired.

PRICE LIST

5. S. White Dental Mfg. Co.'s or H. D. Justi & Son's.

PLAIN TEETH, SHORT PINS.	EACH.	\$10.00 LOTS.	\$25.00 LOTS.	\$50.00 LOTS.	\$100.00 LOTS.	\$300.00 LOTS.
Plain Rubber						
" Plate	.12	.111/2	.II	.10	.09	.08
Countersunk Pin		/ 44				
Continuous Gum	12	.111/2	.11.	.10	.09	.08
GUM TEETH.						
Gum Sectional						
" Rubber Single	.121/2	.12	.111/2	.11	.10	.09
" Plate)	,-		/-			
LONG PIN TEETH.						
Flat Back						
Bicuspids and Molar Facings	= /		= /			
Bicuspids and Molars, both	.12/2	.12	. I I ½	.11	.10	.09
Plate and Saddle-back						
CROWNS.						
Logan, one Pin	60	.58	-55	·53	.50	.46
'' two Pins	65	.63	.60	.58	-55	.50
Bing's Bridge.	50	.48	.46	•44	.42	.40
Gates-Bonwill		.24	.23	.22	.21	.20
Howland-Perry		.09 1/2	.09	.081/2	.09	.07 1/2
Foster		.06		, ~		
Wood Pivot	.00	.00	.0534	.05 1/2	.05	.04 1/2
MISCELLANEOUS.						
Plain, Hand-Stained and Smok						
ers' Teeth		.19	.18	.17	.16	.15
Perforated Molar and Bicuspids Gum Sectional			.111/2	.II	7.0	00
Perforated Molar and Bicuspids	12/2	.12	.11/2	.11	.10	.09
Perforated Molar and Bicuspids	.06	.06	.053/4	.05 1/2	.05	.04 1/2
Cavity Stoppers, without Pins.	00	.06	.053/4	.05 1/2	.05	.04 1/2
Porcelain Inlayslots of 100	05					
" lots of 100 Inlay Rods	.08					
Miniature Sets	.60					
Cavities Drilled in Teeth	25					

PRICE LIST OF TEETH.—Continued.

Gideon Sibley's.

	EACH.	\$10.00 LOTS.	\$25.00 LOTS.	\$50.00 LOTS.	\$100.00 LOTS.	\$300.00 LOTS.	
Gum Rubber Teeth and Plain							
Plate Teeth, Long Pins	.101/2	.IO	.091/2	.09	.08	.07	
Plain Rubber Teeth and Plain							
Plate Teeth, Short Pins	.IO	.091/2	.09	.08	.c7	.06	

The Wilmington Dental Mfg. Co.'s.

	EACH.	\$10.00 LOTS.	\$25.00 LOTS.	\$50.00 Lots.	\$100.00 Lots.	\$300.00 LOTS.
Gum Rubber	.111/2	.II	.101/2	.IO	.09	.081/2
Plain "	.II	.101/2	.IO	.091/2	.081/2	.07 1/2
Flat Back	.12 1/2	.12	.111/2	.II	.IO	.09
Crescent	.12 1/2	.12	.111/2	.II	.10	.09
Genese Crowns.	-35	.33	.32	.30	.28	.27
" Pinless Gum	.10	.091/2	.09	.081/2	.08	.07
" Plain	.10	.091/2	.09	.081/2	.08	.07
Land's Facings	.08	.07 1/2	.07	.06 1/2	.06	.05

C. Ash & Son's.

	EACH.	\$10.00 LOTS.	\$25.00 LOTS.	\$50.00 LOTS.	\$100.00 LOTS.	\$300.00 LOTS.
Flat, for Metal Plate, Crown						
and Bridge Work	.15	.141/2	.14	.131/2	.12	.II
Vulcanite (double-headed Pins)	.12	.111/2	.II	.10	.09	.08
Pinless (for Vulcanite Work),						
Set 14	I.00	•95	.90	.85	.75	.65
Tube Teeth and Tooth Crowns	.25	.24	.23	.22	.20	

A Dollar Tooth for a Dollar.

We have them—Teeth for a dollar a set. There are a great many makes of Teeth made to sell at this price. Some grades masquerade as high-priced Teeth selling at bargain prices, but they are all of the same general class. Some are better than others. There are none better than the grade we handle. We guarantee this—unconditionally. If there is any doubt about it, our evidence is ready. It is a set of these Teeth. It costs just one dollar. If we don't win the case, that dollar will be cheerfully refunded to the man who sends it.

Gum and Plain Rubber Teeth.

Per	se	of 14 Te	eth	 	******	 1.00
13 8	sets		******	 		 10.00
33	6.6			 		 25.00
70	6.6			 	*****	 50.00
100	6.6	*********	* * * * * * * * * * * * * *	 		 70.00
250	6.6	**********		 ,		 170.00
500	6.6	******		 		 325.00

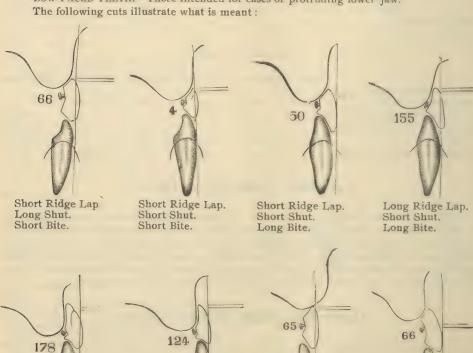
THE \$300.00 RATE ON ALL OF ABOVE IS FOR SPOT CASH ONLY.

Orders for Teeth

Should be written with great care. They should always be read over after they are written. It is so easy to convey a wrong impression. If we understand what is wanted, you'll get that very thing. Be sure your order is right. Be sure it is clear. Meet us half way.

Definition and Illustration of Terms Employed to Express Varieties of Styles of Teeth.

- "SHORT OR LONG RIDGE LAP."—The form of the heel or butt of the tooth.
- "SHORT OR LONG SHUT."—The distance between the upper and lower maxillæ when the mouth is naturally closed.
 - "SHORT OR LONG BITE."—The extent of the lap of the upper tooth over the lower.
 - "SHOULDER BITE."-The striking of the occluding teeth upon a shoulder.
 - FLAT-FACED TEETH.—Those intended for cases of protruding upper jaw.
 - Bow-FACED TEETH.—Those intended for cases of protruding lower jaw.



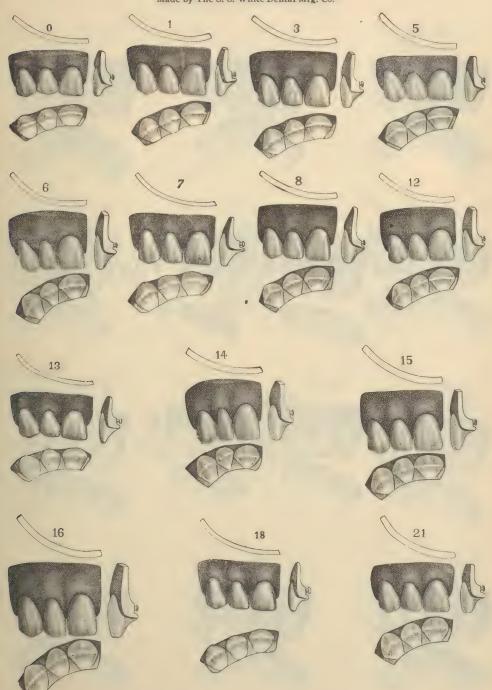
Long Ridge Lap. Short Shut. Short Bite.

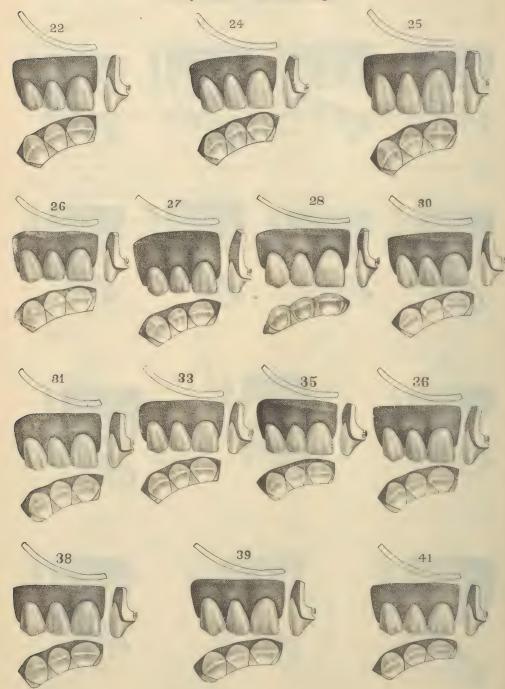
Long Ridge Lap. Short Shut. Shoulder Bite.

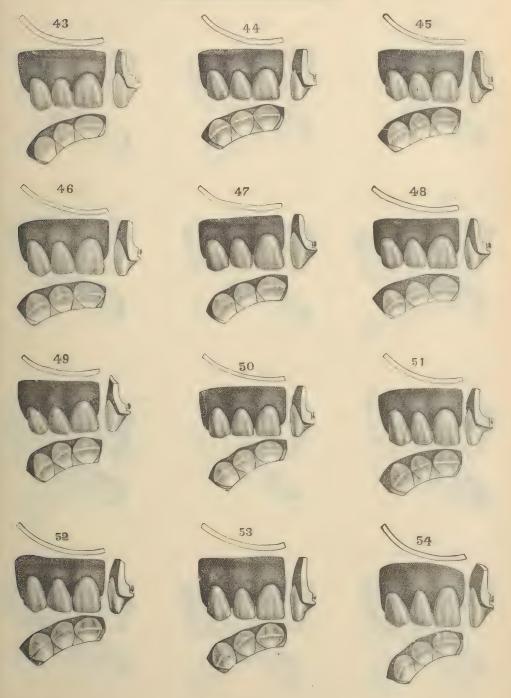
Flat-Faced Tooth for Protruding Upper Jaw.

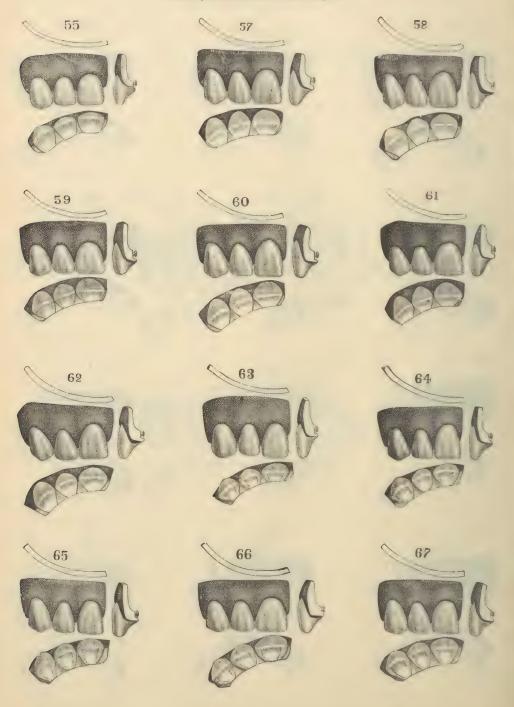
Bow-Faced Tooth for Protruding Lower Jaw.

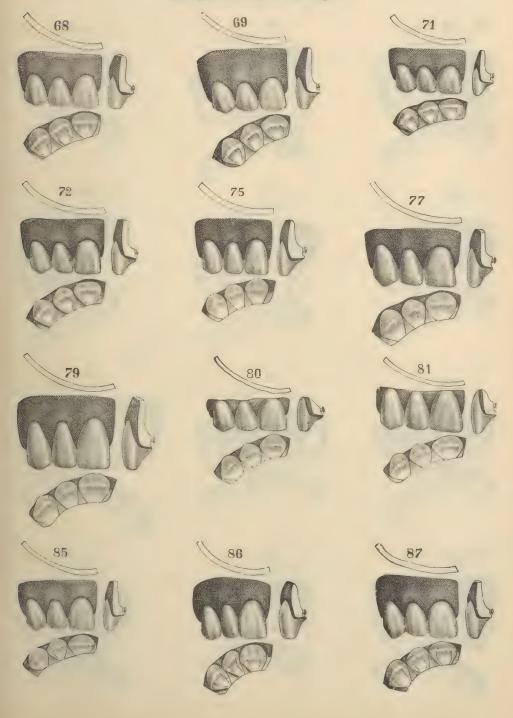
Chart of Gum Sections, Upper, Sets of 14. Made by The S. S. White Dental Mfg. Co.

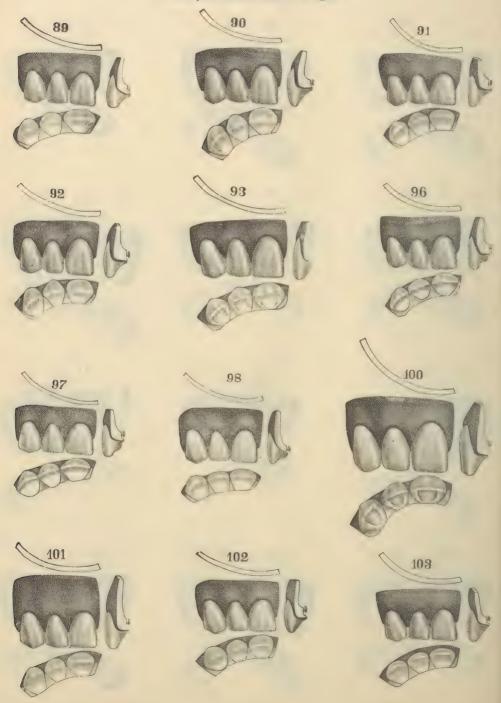


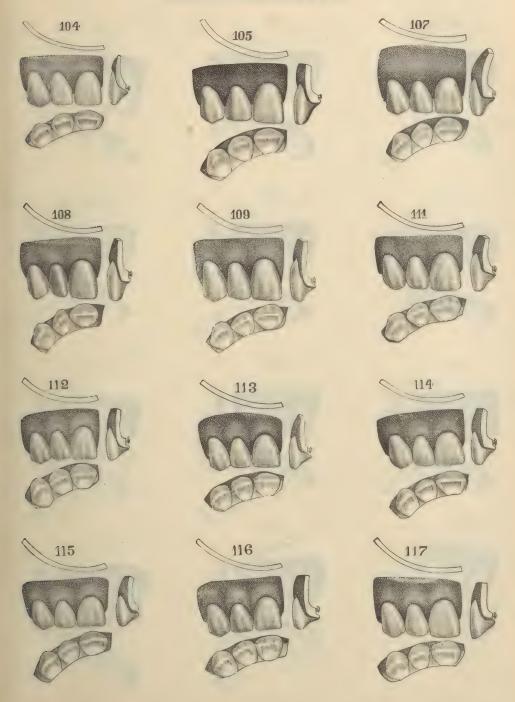


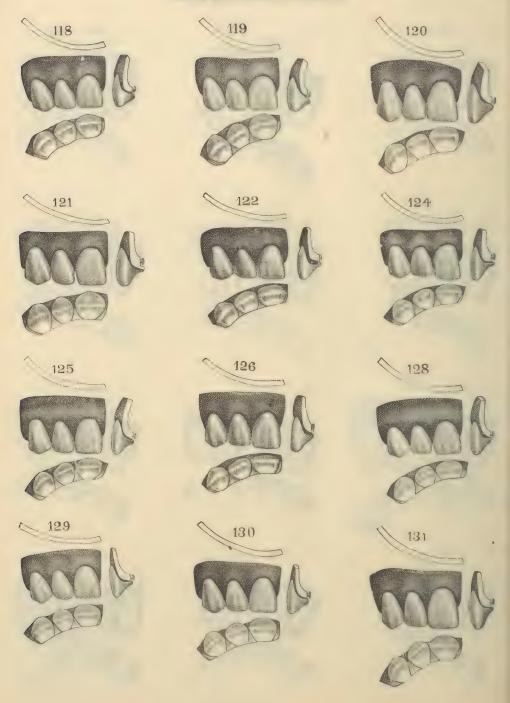


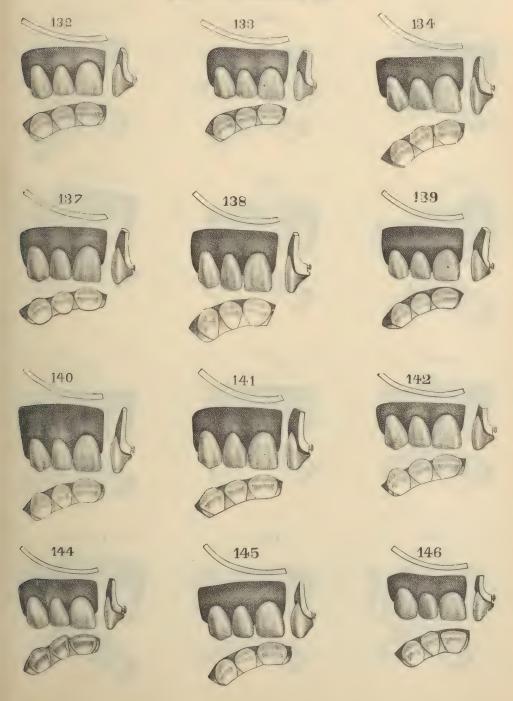


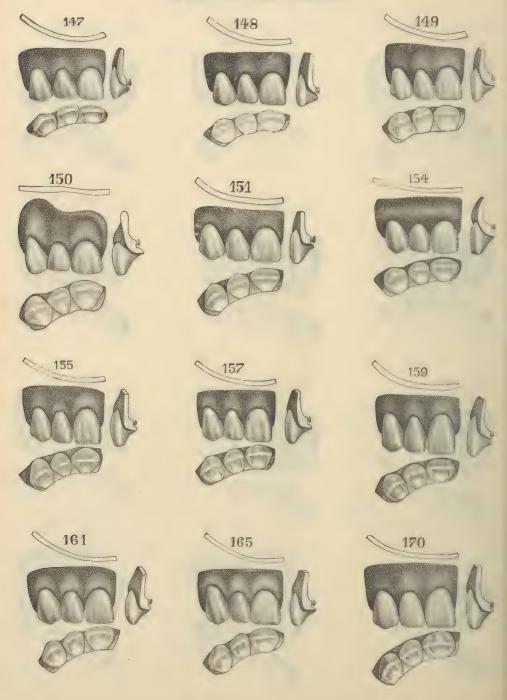












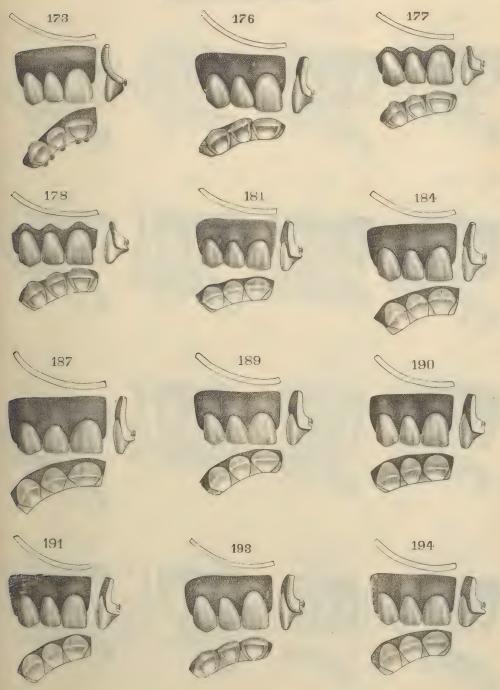
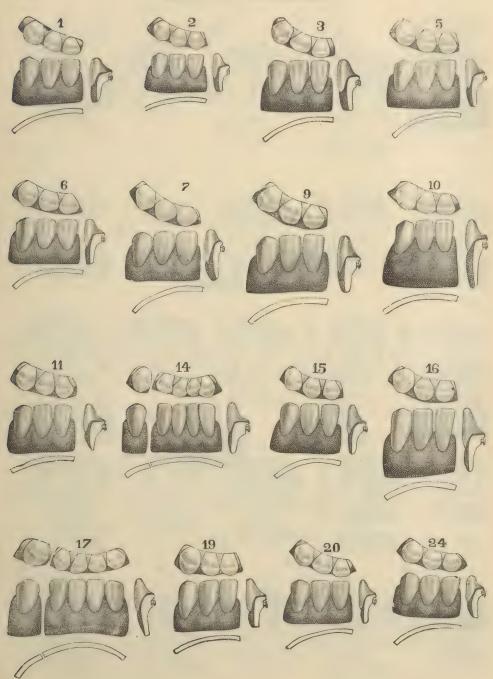




Chart of Gum Sections, Lower, Sets of 14.



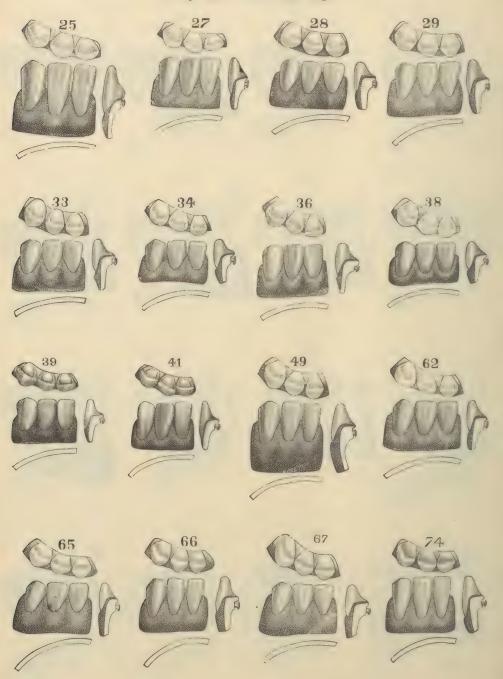


Chart of Gum Sections, Partial.

Made by The S. S. White Dental Mfg. Co.

Upper, Sets of 4, in Two Sections.

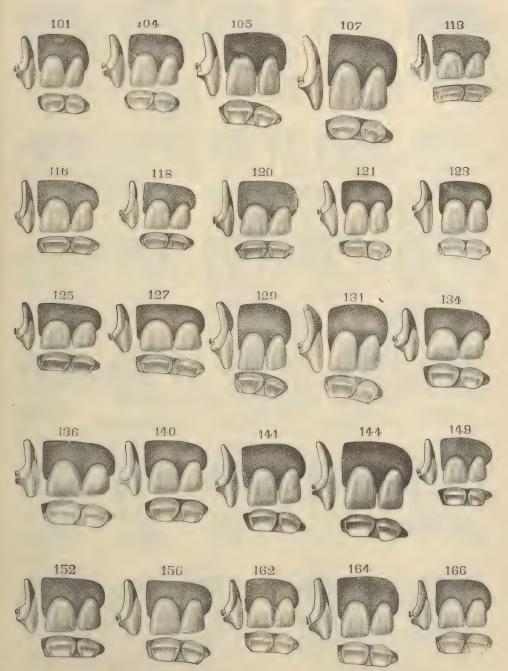


Chart of Gum Sections, Partial.—Continued. Made by The S. S. White Dental Mfg. Co.

Upper, Sets of 4, in Two Sections.

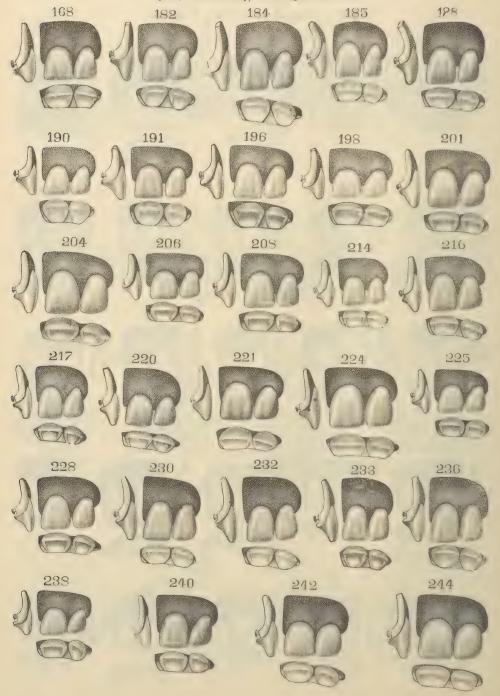


Chart of Gum Sections, Partial.—Continued.

Made by The S. S. White Dental Mfg. Co.

Lower, Sets of 4, in Two Sections.

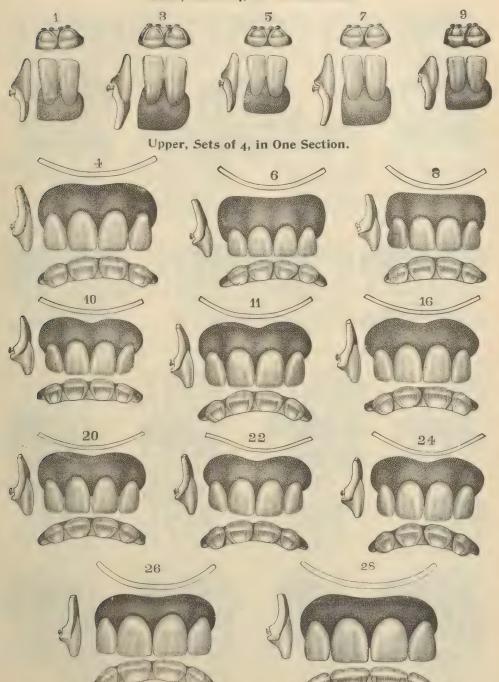


Chart of Gum Sections, Partial.—Continued.

Made by The S. S. White Dental Mfg. Co.

Upper, Sets of 3, Centrals and Lateral, in One Section.

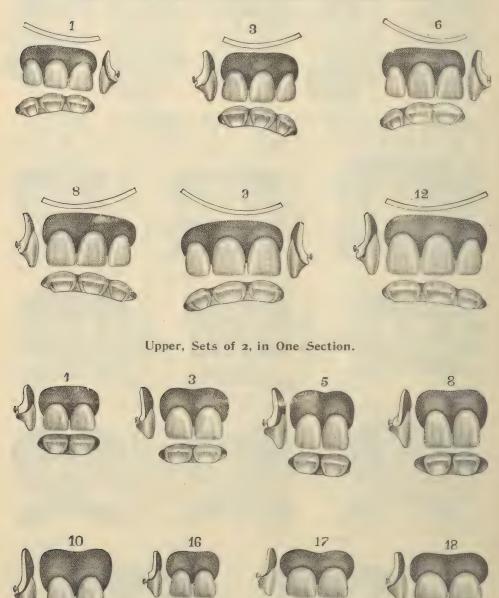
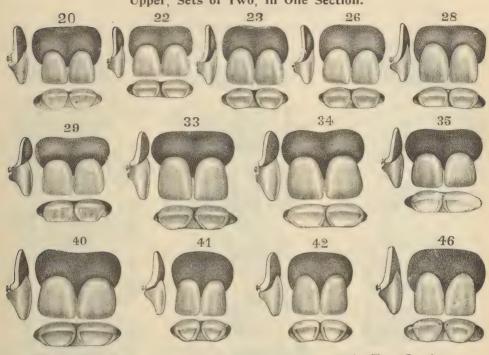


Chart of Gum Sections, Partial.—Continued. Made by The S. S. White Dental Mfg. Co.

Upper, Sets of Two, in One Section.



Upper, Sets of 4, (Bicuspids with Single Cusp), in Two Sections.

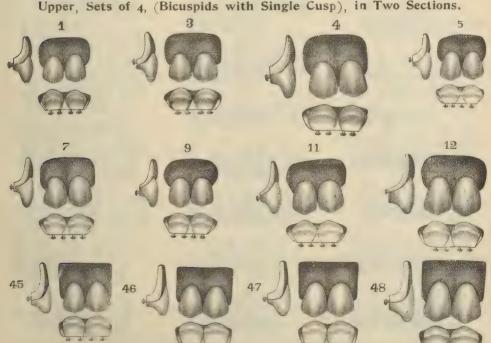
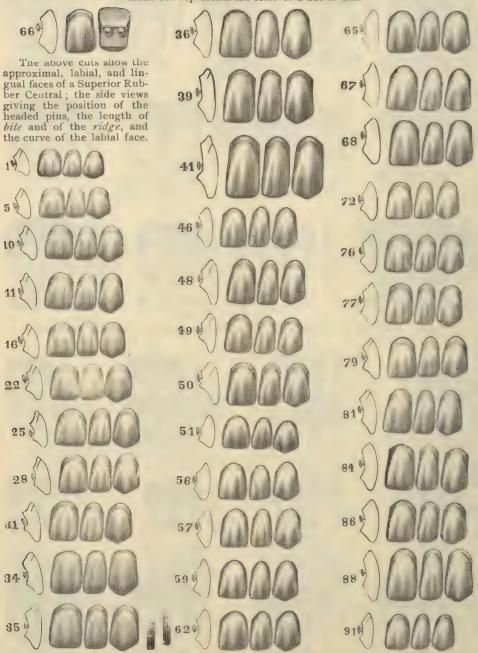


Chart of Plain Teeth for Rubber Work.

Made by The S. S. White Dental Mfg. Co.

Upper, Incisors and Cuspid.

Each Cut represents the Half of a Set of Six.

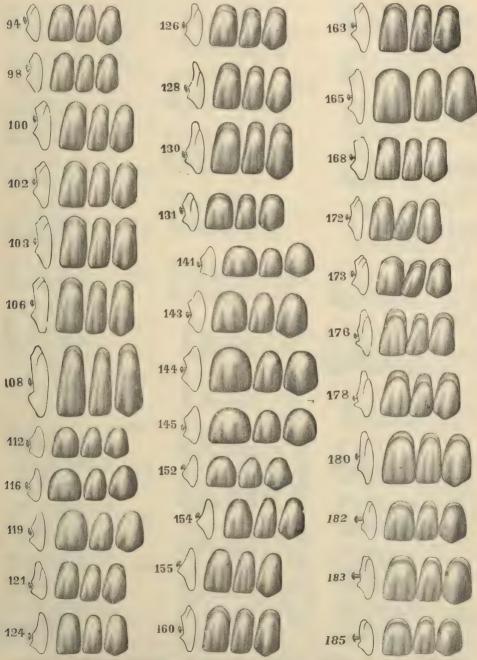


Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Made by The S. S. White Dental Mfg. Co.

Upper, Incisors and Cuspid.

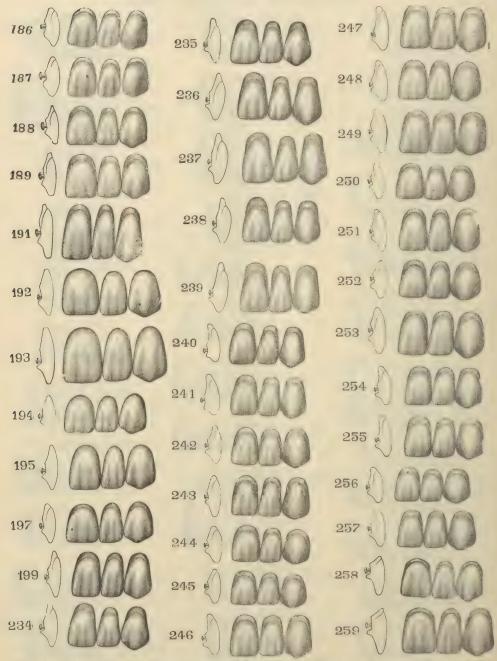
Each Cut represents the Half of a Set of Six.



Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Made by The S. S. White Dental Mfg. Co. Upper, Incisors and Cuspid.

Each Cut represents the Half of a Set of Six.

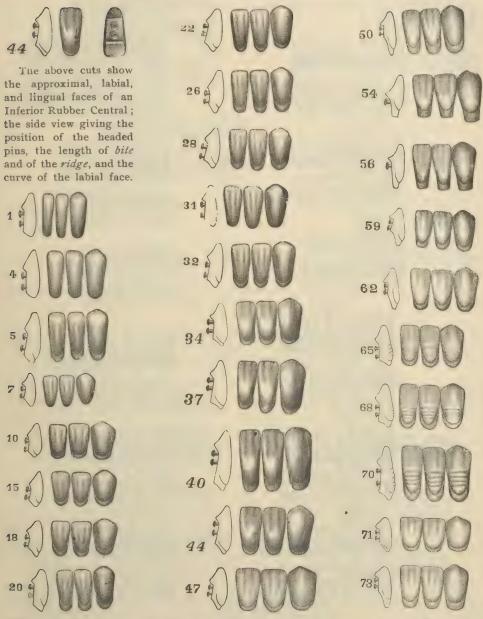


Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Made by The S. S. White Dental Mfg. Co.

Lower, Incisors and Cuspid.

Each Cut represents the Half of a Set of Six.

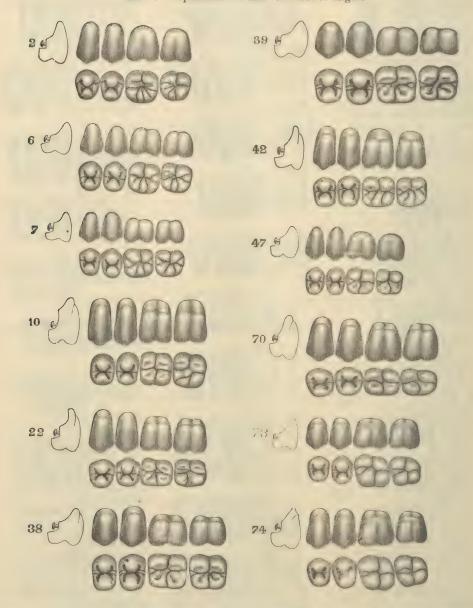


Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Made by The S. S. White Dental Mfg. Co.

Upper, Bicuspids and Molars.

Each Cut represents the Half of a Set of Eight.

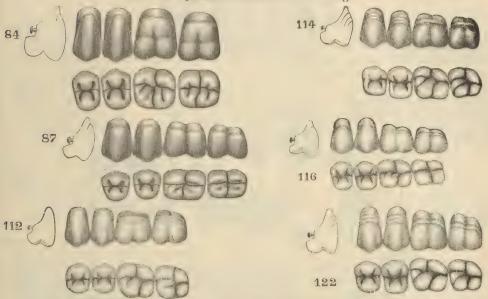


Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Made by The S. S. White Dental Mfg. Co.

Upper, Bicuspids and Molars.

Each Cut represents the Half of a Set of Eight.



Plain plate and bridge teeth may be ordered from above. The moulds shown will convey a general idea as to size and form desired.

Chart of Crowns. Made by The S. S. White Dental Mfg. Co.

Made by The S. S. White Dental Mfg. Co.

Veneers or Facings for Bridge Work.

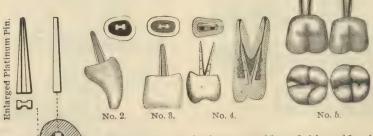
The Improved Logan Tooth-Crown.

Patented January 6, 1885; August 24, 1886.



Set of Six Front Upper Crowns.

The Logan Crown keeps its place at the head of the class, because of its universality, of its adaptability, the ease with which it is set, and its strength. The Crown is hollowed out around the pin, providing room inside of the Crown for a considerable body of the retaining material instead of a thin disk with a joint at the junction of crown and root, thus carrying the line of leverage nearer to the point where the force is applied, and reducing the liability to fracture to a minimum.

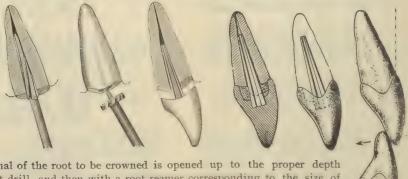


Cross-Section of a Central Incisor, showing the position of the pin in

The pin, in the incisors, cuspids and bicuspids, is a stout, tapering, double-T-shaped platinum post, which extends outside of the crown three-eighths of an inch. It can be split, as shown in Fig. 4, for two-rooted bicuspids, or shortened when necessary. The molars have two square pins, Fig. 5, grooved on all four sides,—one for the palatal root, the other for either of the buccal roots, as may be most convenient.

The posts can be filed smaller for special cases or nicked to afford a stronger hold in the retaining material, though this will usually be unnecessary on account of their shape. It can be used with the seamless gold collars when desired.

Dr. Ottolengui's Method of Mounting the Logan Crown.



The canal of the root to be crowned is opened up to the proper depth with a twist drill, and then with a root-reamer corresponding to the size of the pin is enlarged to fit the pin along its whole length, and so hold the Crown firmly independently of the cement. With a root-facer a labial slope is given to the root-end, so that the crown neck shall fit under the edge of the gum. The cuts show the method and its result, and the cross-section shows how the cement encases the pin.

Chart of Crowns.

Made by The S. S. White Dental Mfg. Co.

Upper, Incisors and Cuspids. Logan Crowns.

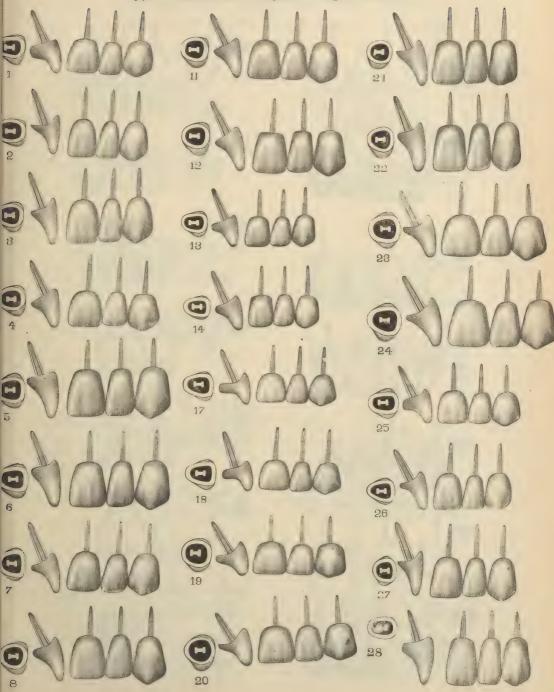


Chart of Crowns.—Continued.

Made by The S. S. White Dental Mfg. Co.

Upper, Incisors and Cuspids. Logan Crowns.

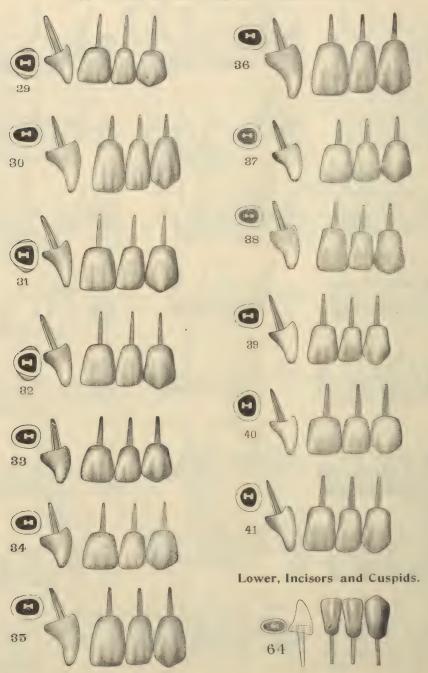


Chart of Crowns.—Continued.

Made by The S. S. White Dental Mfg. Co.

Upper, Bicuspids and Molars. Logan Crowns.

Patented January 2, 1885; August 24, 1886.

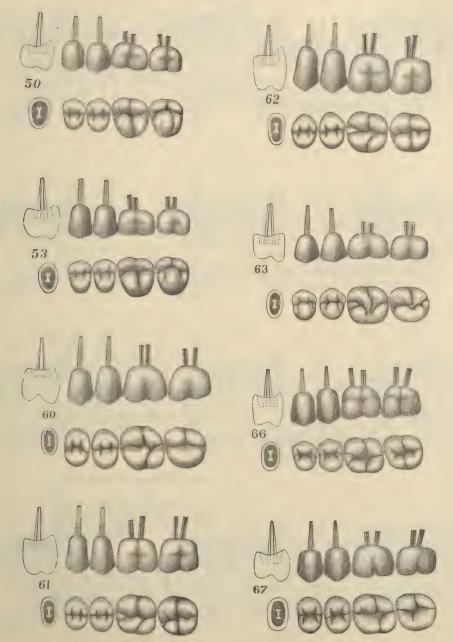
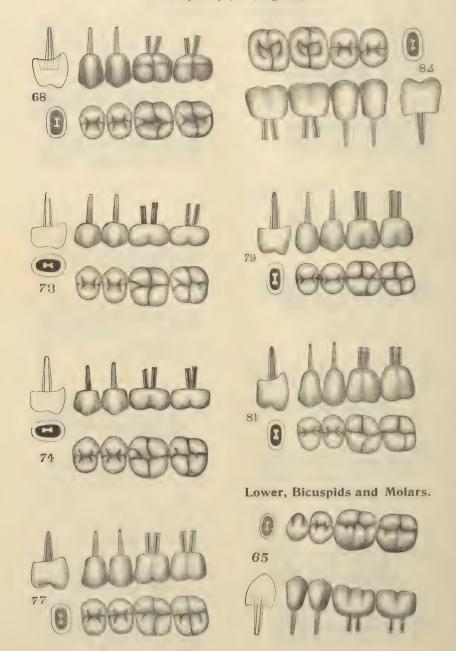


Chart of Crowns.—Continued.

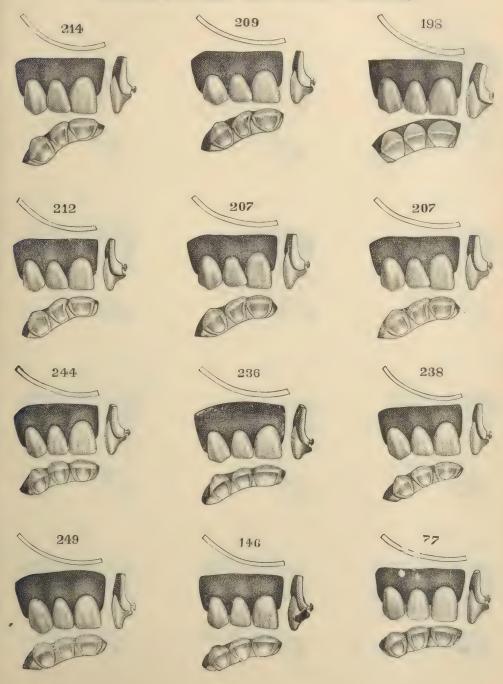
Made by The S. S. White Dental Mfg. Co.

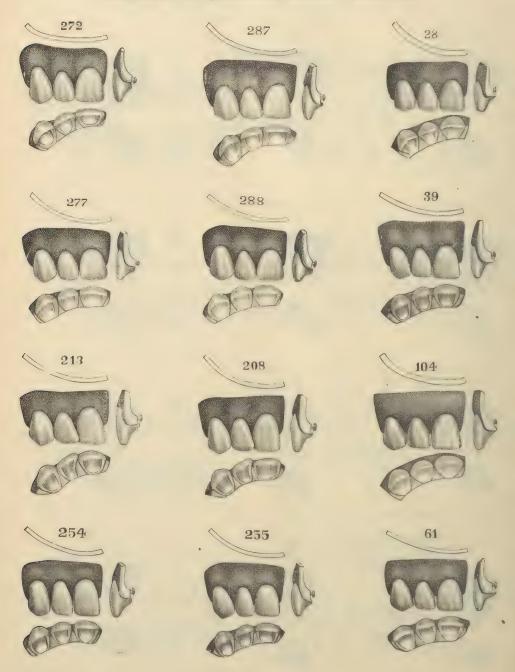
Upper, Bicuspids and Molars. Logan Crowns.

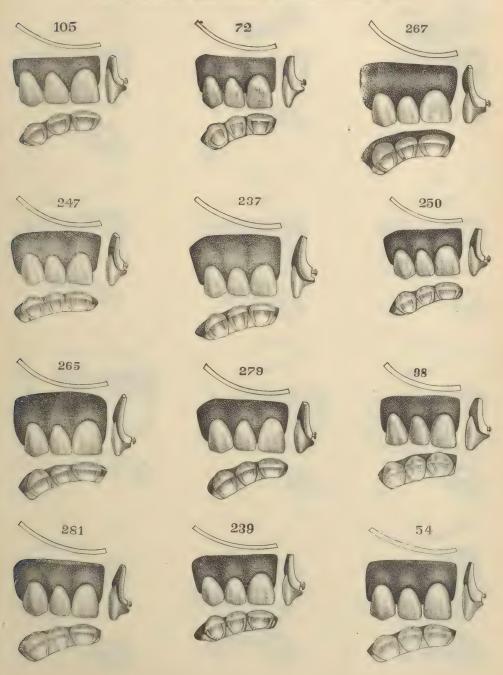
Patented January 2, 1885; August 24, 1886.

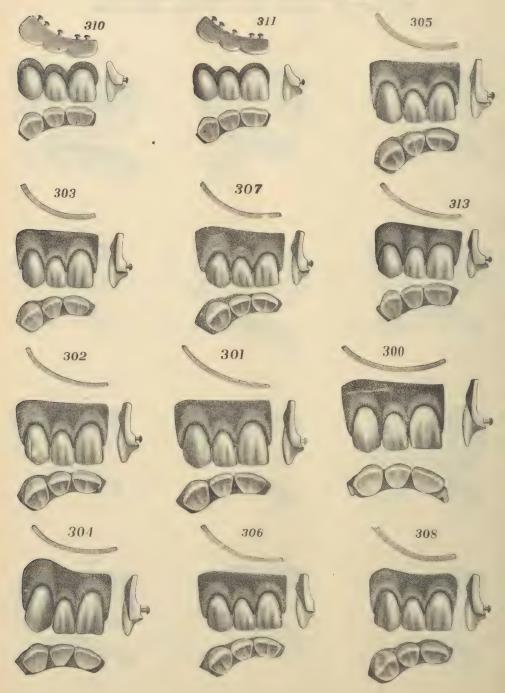


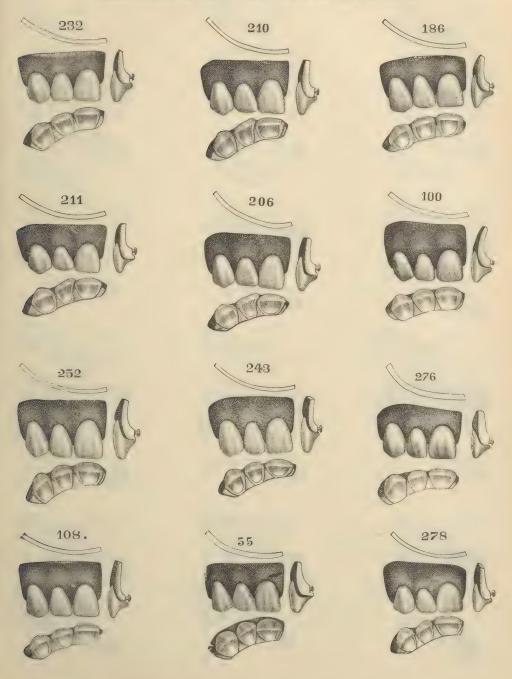
Gideon Sibley's Teeth.

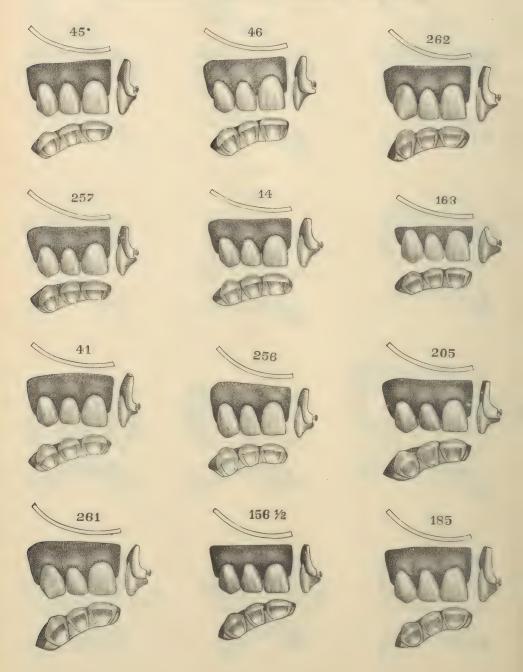


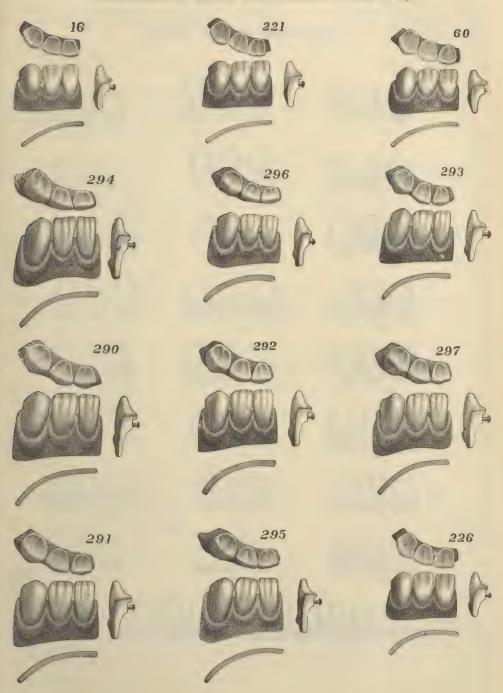




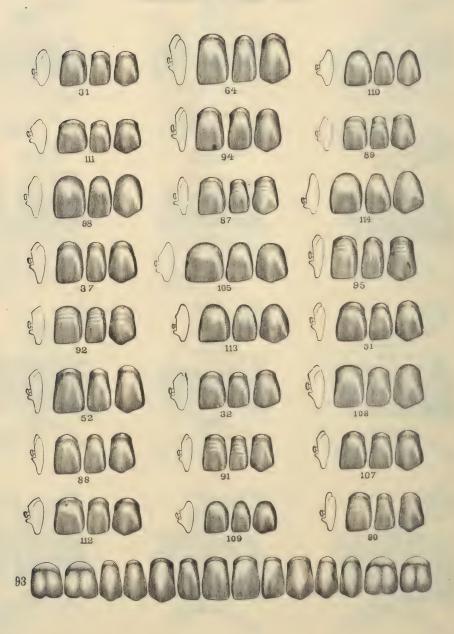








Illustrations of Plain Teeth.

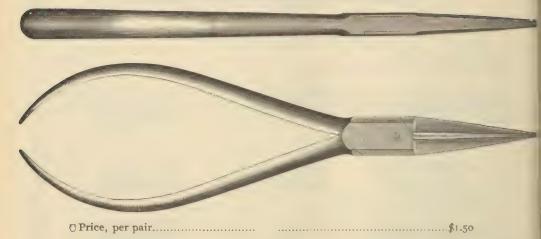


Miscellaneous Goods in the Operative Class.

Anatomical inustration of an incline room, about summer and an incline room, and an incline	ach, \$	1.00
Anatomical Illustration of an Incisor Tooth, Abbott's	46	1.50
Applicator Ton Ponhoestle	6.4	1.50
Appliers, Rubber-Dam, ¼ inch, File-cut Handle	46	1.25 1.62
Bone Handle	4.6	2.00
" Y Ivory "		3.00
Aspessos Felt Foil, per pkg. Aspessos Felt Foil, per pkg.	each,	1.00
Bottles, Case, ½ oz., square, with Mushroom Stoppersper doz., 80c.;	66	.10
1 Oz., \$1.50;	66	.15
Asbestos Feit Foil, per pkg. Bags, Oxygen Gas, I gallon. Bottles, Case, ½ oz., square, with Mushroom Stoppers. "Drop		.50
Braid, Elastic, for Rubber-Dam Holders, per yard	each	.40
Cases.	cacii,	,00
Operating or Extracting, fitted to order,		
Polishing Powder, containing three glass jars		$\frac{1.00}{2.00}$
7 "		2.25
Rolling, Chamois lined, 12 "		3.00
Rolling, Chamois lined, 12 " 15 "		3.50 4.50
20 "	4.6	6.00
Roll Case for Rubber-Dam	16	1.50
Chamois lined Rolling Cases for Burs for Students. Slip-form for Varney's Set 13, Chappell's Set 13, Knowles' Set 13, Pluggers. "Electric Mallet Pluggers. Set 15. Folding. Imitation Morocco, Velvet lined, for Varney's Set 13, Chappell's Set 13, Pluggers. Imitation Morocco, Pocket Tool.	6.6	.80
" Electric Mallet Pluggers. Set 15.	4.4	.80
Imitation Morocco, Pocket Tool.	4.6	3.00 4.50
Chamois Cushion	16	425
Chamois Skins, each. Chamois Skins, each. Cheek Distenders, Elliott's, each. Cottonwood, per bundle. Doilies or Napkins, 6 inches square " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12" " 12"	uc. to	1.00
Cottonwood, per bundle		.20
Doilies or Napkins, 6 inches squareper	doz.,	.40
" 12% x 11% inches, cut and fringed	4.6	1.25
Drop Tubes	each,	,10
Hand-Piece, Bonwill, for S.S.W. engine	1	$0.00 \\ 4.00$
Drop Tubes. Hand-Piece, Bonwill, for S.S.W. engine. Bonwill Files, Serrating, per doz., \$3.00 Foil Crimpers, Nickel-plated Forceps, Manicure. Lamp, Alcohol, Glass body, with Glass tops ground to fit necks of body, small size. """ """ """ """ """ """ """ """ """ "	16	.25
Foil Crimpers, Nickel-platedper	pair,	.50
Forceps, Manicure	each.	2.50
" medium size	"	.50
" Annealing Cutta-Deroha Coftener and Tool Heater Flagge with Water Cup and Annealing Tray	16	6.50
"Annealing, Gutta-Percha Softener and Tool Heater, Flagg's, with Water Cup and Annealing Tray, without "without "	16	.75 6.50 5.00
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's, with Water Cup and Annealing Tray, without "with Warm Water Cup, etc., Bogue's	66 66 66	6.50 5.00 7.50
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's,with Water Cup and Annealing Tray, "with Warm Water Cup, etc., Bogue's	66 66 66	6.50 5.00 7.50 ,35
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's, with Water Cup and Annealing Tray. ""with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders "Pocket, in Case, with Bur Holder	66 66 67 1	6.50 5.00 7.50 ,35 0.00 2.00
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's, with Water Cup and Annealing Tray, ""with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders "Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror Hand 560	" 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 .35 0.00 2.00 3.50
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's, with Water Cup and Annealing Tray, " "with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders "Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	2 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75
"Annealing,Gutta-Percha Softener and Tool Heater,Flagg's, with Water Cup and Annealing Tray, ""with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders "Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	66 66 66 66 66 66 66 66 66 66 66 66 66	6.50 5.00 7.50 ,35 0.00 2.00 3.50 3.00 .75 .60
" Annealing,Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand. Moustache Protector Mouth Distenders, Nickel-plated, with Polished Wood Handle. Pivot Wood, per box. Deters, Wafering, Flagg's.	2 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75
" Annealing,Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand. Moustache Protector Mouth Distenders, Nickel-plated, with Polished Wood Handle. Pivot Wood, per box. Deters, Wafering, Flagg's.	2 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75 .60 .50 2.00 .10
" Annealing,Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand. Moustache Protector Mouth Distenders, Nickel-plated, with Polished Wood Handle. Pivot Wood, per box. Deters, Wafering, Flagg's.	2 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75 .60 .50 2.00 .10
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders " Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75 .60 .50 2.00 .10 .20 .30
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders " Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.00 .75 .60 .50 2.00 .10 .20 .30 .15 .03
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders " Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 3.50 3.50 3.50 3.00 .75 .60 .50 2.00 .10 .20 .30 .15 .03 1.00
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders " Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand	20c. to \$	6.50 5.00 7.50 .35 0.00 2.00 3.50 3.50 .50 .50 2.00 .10 .20 .30 .15 .03 1.00 .75
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand Moustache Protector Mouth Distenders, Nickel-plated, with Polished Wood Handle Pivot Wood, per box Piters, Wafering, Flagg's Pet Rubber Bulbs, Round, for Syringes Nos. 21, 24 and Laskey " Flat Bottom, for Syringes Nos. 22, 25, 26 " Nos. 23 and 30, with Valve " For Syringe No. 29 " Set for Syringe No. 31, per set " Oblong, for Syringe No. 32 Saliya Pump, Glass, with Rubber Bulb Saws. Gordon White. Separating, complete	20c. to \$	6.50 5.00 7.50 3.50 3.50 3.50 3.00 .75 .60 .50 2.00 .10 .20 .30 .15 .03 1.00
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. " without " " " " " Without " " " " " " " " " Without " " " " " " " " " Without " " " " " " " " " " " Set for Syringes Nos. 21, 24 and Laskey. " " " Set for Syringes Nos. 22, 25, 28 " " " Set for Syringes Nos. 27 and 28 " " Set for Syringe No. 31, per set. " " " Saws, Gordon White, Separating, complete. " " " " " " " " " " " " " " " " " " "	20c. to \$	6.50 7.50 3.50 0.00 2.00 3.50 3.50 3.00 .75 .60 .20 .10 .20 .30 .15 .03 1.10 .75 .75 .85 .85 .85 .85 .85 .85 .85 .8
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. " without " " " " Without " " " " " " " Pocket, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. " Pocket, in Case, with Bur Holder. " Pocket, in Case, with Bur Holder. " " Bur Holder, for Microscope. " " " Microscope. " " " " Sold Widering, Plagg's. " " " " Sold Watering, Plagg's. " " " " Pliers, Watering, Plagg's. " Pliers, Watering, Plagg's. " Per Rubber Bulbs, Round, for Syringes Nos. 22, 24 and Laskey. " " " " Flat Bottom, for Syringes Nos. 22, 25, 26. " " " " Nos. 23 and 30, with Valve. " " " For Syringe No. 29. " " " Set for Syringes Nos. 27 and 28. " " " Set for Syringe No. 32. " " " Set for Syringe No. 31, per set. " " Oblong, for Syringe No. 32. Saliva Pump, Glass, with Rubber Bulb. " " " " Holder and Cone-Socket Handle. " " " " " " " " " " " " " " " " " " "	c. to \$	6.50 7.50 0.00 2.00 3.50 3.50 3.50 3.00 .75 .60 .20 .10 .20 .10 .75 .75 .50 .30 .10 .75 .35 .35 .35 .35 .35 .35 .35 .3
"Annealing,Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, "with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders Pocket, in Case, with Bur Holder Bur Holder, for Microscope Mirror, Hand Soft Moustache Protector Mouth Distenders, Nickel-plated, with Polished Wood Handle Pivot Wood, per box Piters, Wafering, Flagg's Pet Rubber Bulbs, Round, for Syringes Nos. 21, 24 and Laskey "" Flat Bottom, for Syringes Nos. 22, 25, 26 "" Nos. 23 and 30, with Valve "" For Syringe No. 29 "" Set for Syringe No. 31, per set "" Oblong, for Syringes No. 32. Saliya Pump, Glass, with Rubber Bulb. Saws, Gordon White, Separating, complete "" Holder and Cone-Socket Handle "" Cone-Socket Handle "" Cone-Socket Handle "" Separators, Dr. Gordon White's	c. to \$	6.50 5.00 7.50 3.50 0.00 2.00 3.50 50 2.00 .10 .20 .30 .15 .03 1.00 .15 .03 1.00 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .15 .50 .50 .50 .50 .50 .50 .50 .5
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand. 50 Moustache Protector. Mouth Distenders, Nickel-plated, with Polished Wood Handle. Pivot Wood, per box. Pilers, Wafering, Flagg's. Rubber Bulbs, Round, for Syringes Nos. 21, 24 and Laskey. " " Flat Bottom, for Syringes Nos. 22, 25, 28 " " " Oblong, for Syringes Nos. 27 and 28 " " " Oblong, for Syringes Nos. 27 and 28 " " Set for Syringe No. 39 Saliva Pump, Glass, with Rubber Bulb. Saws, Gordon White, Separating, complete " " Holder and Cone-Socket Handle " " " Holder and Cone-Socket Handle " " " Saw only. Separators, Dr. Gordon White's Separators, Dr. Gordon White's	" 2 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 '	6.50 5.00 3.50 0.00 2.00 3.50 3.00 .75 .60 .10 .20 .30 .10 .75 .50 .85 .10 .75 .50 .85 .85 .85 .85 .85 .85 .85 .85
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing I ray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated	" " " " " " " " " " " " " " " " " " "	6.50 5.00 7.50 8.50 0.00 2.00 .00 .00 .00 .00 .00
"Annealing,Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, "without "without "without "without " "without "without "without "without " "Pocket, in Case, with Three Bur Holders	" " " " " " " " " " " " " " " " " " "	6.50 5.00 7.50 8.50 0.00 2.00 .00 .00 .00 .00 .00
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing Tray, " " with Warm Water Cup, etc., Bogue's Lip Protectors, Nickel-plated Microscope, in Case, with Three Bur Holders Pocket, in Case, with Bur Holder Bur Holder, for Microscope	"" "" "" "" "" "" "" "" "" "" "" "" ""	6.50 5.00 7.50 8.50 0.00 2.00 .00 .00 .00 .00 .00
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing I ray, " without	" 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 8.50 0.00 3.50 3.00 75 60 50 2.00 10 2.00 10 10 75 50 85 15 15 15 15 16 10 10 10 10 10 10 10 10 10 10
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing I ray, " without	" 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 8.50 0.00 3.50 3.00 75 60 50 2.00 10 2.00 10 10 75 50 85 15 15 15 15 16 10 10 10 10 10 10 10 10 10 10
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing I ray, " without	" 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 5.00 7.50 8.50 0.00 3.50 3.00 75 60 50 2.00 10 2.00 10 10 75 50 85 15 15 15 15 16 10 10 10 10 10 10 10 10 10 10
" Annealing, Gutta-Percha Softener and Tool Heater, Plagg's, with Water Cup and Annealing I ray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope	" 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.50 7.50 3.5 0.00 2.00 3.50 3.00 7.5 60 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 2.00 10 10 10 10 10 10 10 10 10
" Annealing,Gutta-Percha Sottener and 1001 Heater, Flagg's, with water Cup and Annealing 1 ray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand	"" "" "" "" "" "" "" "" "" "" "" "" ""	6.50 7.50 3.55 0.00 2.00 3.50 0.50 2.00 3.50 2.00 3.50 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00
" Annealing,Gutta-Percha Sottener and 1001 Heater, Flagg's, with water Cup and Annealing 1 ray, " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. " Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6.50 7.50 7.50 0.00 2.00 3.50 0.00 2.00 0.75 6.00 2.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
" Annealing,Gutta-Percha Sottener and 1001 Heater, Flagg's, with water Cup and Annealing 1 ray, " " with Warm Water Cup, etc., Bogue's. Lip Protectors, Nickel-plated. Microscope, in Case, with Three Bur Holders. Pocket, in Case, with Bur Holder. Bur Holder, for Microscope. Mirror, Hand	"" "" "" "" "" "" "" "" "" "" "" "" ""	6.50 7.50 3.55 0.00 2.00 3.50 0.50 2.00 3.50 2.00 3.50 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00

Laboratory and Office Pliers.

Made by The S. S. White Dental Mfg. Co.



Arkansas and Washita Oil Stones.

These Stones are mounted in polished wood, with a cover to protect them from dust, and are especially useful for the operating room.

PRICES.

Wood	Mounted,	Arkansas	Stones	 ach,	60 0	ents.
8.6	6.6	Washita	6.6	 6.6	50	6.6

Arkansas Stone Slips.

No.	I,	Knife-Edge Slip	60	cents.
		Double Knife-Edge Slip		
		Pointed Slip		
		Round-Edge Slip		
		Square Slip	_	
		Flat Slip.		6.6

We have in stock a large assortment of Arkansas Stones and Slips varying in price, according to size, from 20 cents to \$2.00 each.

These are all made from the finest selected stone, free from flaws or checks.

Carborundum Slab.

A little affair—four inches long, one inch wide, a quarter inch thick. It is a hard worker. The size is just right for the bracket table. The grit is fine—fine enough for the most delicate instrument. It is better than any stone. Nothing else will put the edge on an instrument this puts on it, and the price—the price is 25 cents for one.

... Mechanical ...

×

This is by no means the least important part of this catalogue or of our stock. There is nothing made for this class of work that isn't in our stock. There never will be.

Dental Plaster.

We can supply any grade of Plaster that is made. We carry in stock nothing but the Knickerbocker Selected, and are prepared to supply this at the following prices:

Barrel	\$3.00
Half barrel	2.00
Per quart	. 05

Champion Impression Compound.

A Substitute For Plaster in all Cases,

But especially advantageous where a die is wanted for the swaging of a plate.

The compound when mixed possesses a smooth and oily quality, which allows it to spread freely and evenly over the surface against which it is pressed, and into the spaces between the teeth, or fissures in the crown.

It will not adhere to the teeth.

In separating the impression from the plaster model the operation is greatly facilitated because of the contrast of color (which is pink) with white model.

Its taste is less unpleasant to the patient.

Its use entirely dispenses with molding sand; die is made from the impression direct, as it is removed from the mouth. When cast, a model is obtained with every line, under-cut, tooth and rugae, sharp, distinct and smooth.

It has no superior as an investment compound.

PRICES.

4	lb.	can			0.40
8	6.6	6.6			.75
16	6.6	6.6			1.40
20	6.6	6.6			1.75
30	6.6	6.6			2.50
1/4	bb	1. (75 lbs.))	6.00
1/2	6.6	(150 "		10.00
I	. 66	(300 ")	18.00

Spatulas.

Spatula or Palette Knife, with patent bolster, 4-inch....25 cents Spatula or Palette Knife, with patent bolster, 5-inch....30 '' Spatula or Palette Knife, with patent bolster, 6-inch....40 ''



Rubber Bowls for Mixing Plaster.



These Bowls are made of soft vulcanized rubber thick enough to give all the strength and rigidity required. They cannot be broken; their sides can be pressed together to form a lip or spout for pouring thin-mixed plaster; and any nuused plaster of the mixing which sets in them can be thoroughly crushed and readily removed by squeezing the sides of the Bowls together.

The dimensions are: A, 31/4 inches in diameter at the top by 21/2 inches in depth; B, 4 inches in diameter by 234 inches in depth; and C, 41/2 inches in diameter by 31/2 inches in

depth.

PRICES.
 Rubber Plaster Bowl, A...
 .50

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DID ANYBODY EVER TELL YOU ABOUT

Sibley's Superior Sticky Wax?

This Preparation is one that is very useful in both the office and laboratory. It will

be found far superior to ordinary wax when waxing up a set of teeth on the trial plate.

It is also very useful in crown and bridge work, for sticking the teeth to metal plate

or band.

Price, per box..... 50 cents.

MANUFACTURED BY

GIDEON SIBLEY.

PHILADELPHIA.

CHICAGO.

Dr. Melotte's Moldine.

For taking impressions of one or two teeth or roots, Dr. Melotte's Moldine used with Impression Tray No. 20 is excellent. Moldine is also useful in several other directions, notably as an investment for soldering or repairing plates.

Price, per ½-lb.....

Highly Improved Patent Articulating Paper.

This Paper is very useful in articulating sets of teeth and crown fillings. By its use the operator is enabled to mark the bite and know just where to grind off the surface. It is free from oil, smell and taste.

Put up in books, each containing one dozen leaves, thick or thin.

Price, per book\$..10

Modelling Compound.

C. Ash & Sons' Perfected Impression Composition.

A SUPERIOR ARTICLE FOR TAKING IMPRESSIONS OF THE MOUTH, ETC.

This Composition possesses the following qualities:-

Fineness and wax-like smoothness of grain. The impressions that are taken with it are very clear and sharp.

Absolute freedom from stickiness; does not require wet fingers to manipulate it. No shrinkage.

Prepared in square cakes, pink in color and agreeably scented.

Directions for working enclosed in each box.

Extra soft quality. For renovating. With working directions.

Hood & Reynolds' Modelling Composition.

Four grades-Extra Soft, Soft, Medium and Hard.

Modelling Composition.

Made by The S. S. White Dental Mfg. Co.

It has Rivals, but no Equals.

The above is the general sentiment of the profession who have used Sibley's Modelling Compound.

This Compound has been placed on the market after a series of long experiments.

Our object was not to manufacture a compound equal to others, but one superior.

By using Sibley's Modelling Compound you can obtain a sharper and more perfect impression than with any other.

It hardens quickly in the mouth and has a delicate and pleasant perfume.

It is far superior for use in taking impressions and bites to wax or plaster.

The above is put up in ½-lb. boxes.

Price per 1b......\$1.00

GIDEON SIBLEY,

PHILADELPHIA, PA.

1314-1220 Filbert St.

CHICAGO, ILL.

No. 205 State St.



Purpolene Varnish

Dentists who give this Varnish a trial will find that it will do all that we claim for it in the most perfect manner, thereby saving time in polishing the plate.

Prevents the plaster from adhering to the rubber when vulcanizing, imparting a smooth surface.

Price, 25 cents per bottle. By mail, 10 cents extra.

Coatings for Plaster Casts.

Collodion, in 2-oz. bottles, with brush	
per bottle	\$0.40
Collodion, in 6-oz. bottles	.80
Sandarac Varnish, in 2-oz. bottles, "	.25
Extra Shellac Varnish, in 2-oz. bot-	
tles	.25
Liquid Silex, in 2-oz. bottles, with	
brush	.20
Elliott's Parting Fluid "	.25
Gilbert's Imperial Varnish	.25

Copal=Ether Varnish.

Wax Preparations for Impressions.

Wax Preparations for Base-Plates.

base-riate wax. I ut up in hair-pound boxes.		
Yellow Waxper	r box.	\$0.38
Gutta-Percha and Wax	6.6	.63
	6.6	
Pink Paraffine and Wax	6.6	.50
Pink Wax, Extra Tough		.50

Base-Plate Forms.

These Forms are made of "Extra Tough Pink Paraffine and Wax" and of "Modeling Composition No. 2," the thickness of the material being the same as our regular base-plate preparations. They are put up in boxes containing either 25 Upper or 25 Lower Forms.

The Ideal Dental Base=Plate.

DOES NOT "CRAWL" FROM THE CAST NOR SOFTEN UNDER THE HEAT OF THE MOUTH.

"Ideal" in every way. Fancy a trial plate that will not soften with heat of the mouth. Fancy a trial plate upon which teeth may be mounted and the plate worn in cases of emergency for a week or so at a time. Then you have the "Ideal" Dental Base Plate. There isn't anything could replace it. If it is used once it is used always.

Price per box of 12 sheets, 3½x2½ inches.....50 cents.

Modelling Composition for Base-Plates.

Suggestion of Dr. W. S. Elliott.

Put up in oblong sheets as a substitute for wax, or gutta-percha and wax, for baseplates or "trial plates." It is said to have very decided advantages over anything else which has been on the market for such purposes.

Put up in half-pound boxes.

Fowler's Sticky Wax.

IN ROUND STICKS.

For putting impressions together, mending plaster casts, sticking teeth to the plate, especially in metal work, mending rubber-dam, sticking it to the tooth or gum, for attaching the porcelain to the gold in crown and bridge-work, etc., etc.

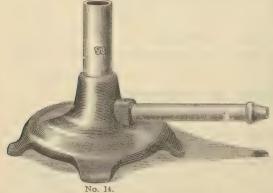
Price, per box50 cents.

Extra Tough Pink Paraffine and Wax.

IN STICK FORM.

This Wax is put up in this convenient form for building up artificial dentures. It is prepared by an entirely new and original process.

Price, in half-pound boxes, per box.....50 cents.



Waxing Burner.

Designed by Dr. H. H. Keim.

This Lamp will be found very efficient in waxing up models for artificial sets and for various laboratory uses. The end of the gas-tube, which extends to the center of the flame-tube, is considerably reduced, and is turned up-ward. The flame-tube is open at the bottom for the free admission of air to cause a strong draft. The heat of the flame-tube causes the wax which drops from the model to run through and escape at the bottom, thus avoiding any danger of clogging the gas-pipe.

Price, each.....75 cents.

No. 5F. The Lewis Waxing Burner.



No. 5F.

This Burner is made from entirely new patterns, and is practically new in design. The Burner is constructed with an angle at its upper end, to prevent melted wax from running down the tube and clogging up the gas jet. The Burner tube is open its entire length, and if by any accident wax should get in the Burner it will drop through. A revolving drip-table is attached to the upright tube to catch melted wax and prevent its dropping on the work-bench, and it is also useful for resting hot spatulas

PRICE.

No. 5F. Lewis Waxing Burner......75 cents

Bench Knives.

These Knives are of good material, roeswood handles, tempered steel blades, and excellent in shape for trimming plaster casts and for dental laboratory purposes generally.

ALUMINUM-F from one piece of s tapered and thinne	HANDLED BE steel, and is ve d for removing	NCH KNIFE ery strong and g plaster impre	No. 5. This Kni well tempered. ssions from the c	ife is made One end is asts.	
Bench Knife, Maluminum-Har	No. 4dled Knife, N	No. 5		35 "	
Bench Knife, I				BUFFALD, N.Y.	

No. 1.

No. 2.

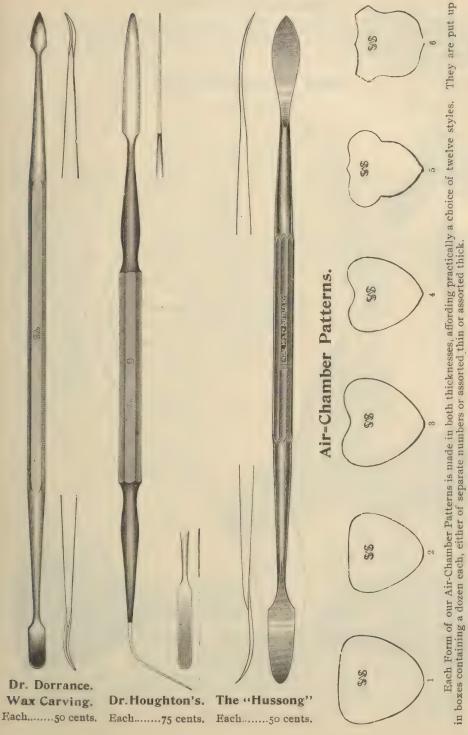
No. 3.

No. 4.

No. 5.

No. 6.



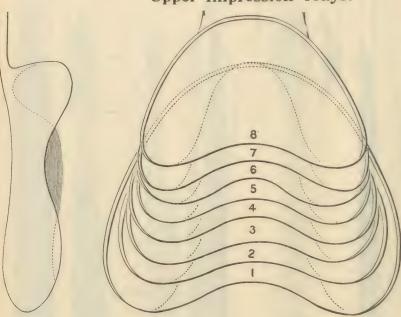


Price, Thin, per dozen.....20 cents. Price, Thick, per dozen......25 cents.

Impression Trays.

At great expense we have had made Charts showing exact sizes of the various forms of Trays. These Trays are made of britannia-metal, of the best quality, and of uniform thickness. They are light enough to allow of alterations with pliers or mallet, or for many cases with the fingers, so as to adapt them to any peculiar formation of the maxilla. They are superior in form and finish.

Upper Impression Trays.



This Chart shows sizes of Upper Trays from one to eight.

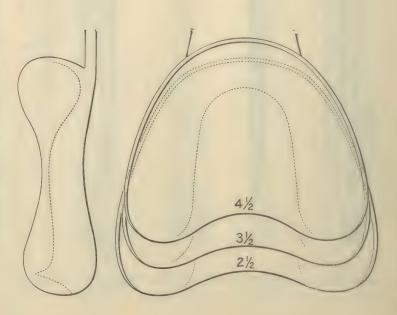
Special attention is invited to the peculiar-ities of these forms—to the dip at the sides, to accommodate the prominences of the malar processes, and in front to avoid the labial frænum; and to the length (1 1/2 inches) and position of the handle, which, being below the line of the base, gives more room for the lip.

Price, each,

Specially adapted for Plaster.

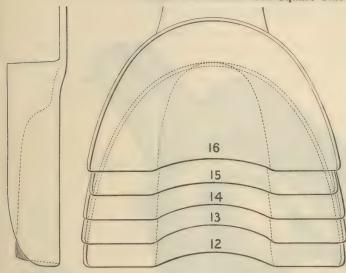
These Trays differfrom the regular set of Upper Trays in having raised palatine edge, which makes them especially desirable for taking plaster impressions for Full Upper Dentures, the raised edge preventing the plaster from slipping off the Tray.

Price, each, 25c.



Upper Impression Trays.

With Flat Bottom and Square Side.



This chart shows sizes of Trays from 12 to 16 (for Partial Upper Dentures), with flat bottom and square sides. The handles 1½ inches in length, set below the line of the base. Price, 25 cents.

Partial Upper or Lower Trays.



This form illustrates a Partial Upper Tray for one or two teeth. Useful in pivoting and bridgework. Price, each, 20c.

Adjustable Upper Impression Trays.

Patented Aug 24, 1886.

Each of these Trays is stiff enough for ordinary uses, yet can be quickly bent, compressed, twisted, or cut away to meet emergencies or unusual presentations of the teeth, gums or palatine arch. Their great facility of adjustment renders good impressions possible in difficult cases without loss of time. Made in three sizes—17, 18 and 19.

Price, each.....35 cents.





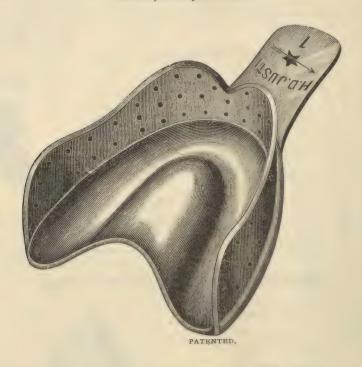
No. 10 suggested by Dr. L. M. Mathews; No. 20 by Dr. Geo. W. Melotte.

These Trays were designed for Partial Cases of every description. They are well adapted for use in any part of the upper or lower jaw.

Price, each.....25 cents.

The Weirich New Flexible Rim Impression Trays.

Made by H. D. Justi & Son.



While plaster impressions are acknowledged to be the only reliable ones, every dentist has found a serious difficulty in obtaining them, owing to the tendency of the plaster on the outside the maxillary ridge to break away when the impression is withdrawn from the mouth. This usually breaks into small pieces, always difficult and often impossible to replace. From this cause sometimes several impressions have to be taken before one sufficiently perfect for use can be obtained.

In the New Tray this trouble is removed. The plaster is mixed and applied in the usual way; when withdrawn it will break away, but the pieces, adhering to the rubber, will come directly back into their proper places, and the impression can at once be brought into perfect shape.

This result is obtained by making the rim of the Tray of rubber, as shown in the cut. This rubber is fastened in a groove in the base of the Tray, and is sufficiently rigid to support the plaster while taking the impression, and yet flexible enough to permit the impression to be withdrawn without difficulty.

These upper Trays are of five sizes, No. 1, the largest, being the same as the common No. 1 Tray; the others are evenly graded to No. 5, which is small enough for any case likely to be presented.

This invention has been tried by a number of dentists, and pronounced a great success, saving them much annoyance and trouble, and giving them far more perfect results.

Price, each \$0.75

Angle's Impression Trays.

Made by The S. S. White Dental Mfg. Co.

The best Trays for taking partial impressions.

The Trays are of such shape and height that it is only necessary to evenly fill them with plaster, leaving but very little surplus material to cause annoyance.

Uppers, Nos. 21, 22 and 23. Lowers, Nos. 24, 25 and 26.

Price, each......35 cents.

Adjustable Lower Impression Trays.



Suggested by Prof. Henry I. Dorr.

The distinguishing features of these Lower Impression Trays are the posterior lingual wings, which enable the operator to obtain an accurate impression of the jaw on either side of the tongue. These wings may easily be spread apart, or brought toward each other, or twisted, or cut away to adapt the Tray to nearly any size or shape of the edentulous lower jaw.

Nos. 18 and 19.

Price, each......35 cents.

Patented August 24, 1886.

In this Tray, suggested by Dr. J. K. Wiley, the inner wall is cut through on either side, with slots running to the outer rim for adjusting the Tray by spreading, closing, or bending the sides.

Price, each...... 35 cents.



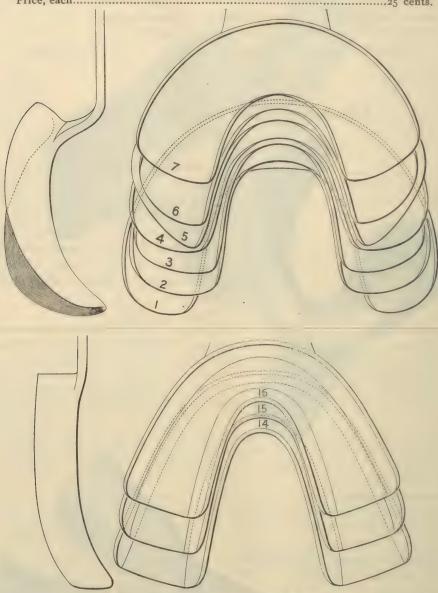
Lower Impression Trays.

This Chart illustrates the sizes of a set of seven, Nos. 1 to 7, for Full Lower Dentures.

The inner line is shaped to avoid the lingual frænum.

Nos. 5 and 6 are especially designed for cases where great absorption has taken place, and the muscles of the mouth are on a level with the maxillary ridge.

Price, each.....



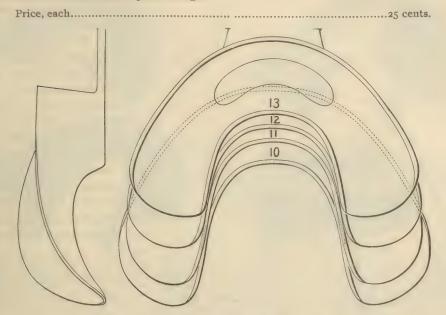
WITH FLAT BOTTOM AND SQUARE SIDES.

This Chart illustrates the sizes of a set of three, Nos. 14 to 16, with flat bottom and square sides, designed especially, in taking impressions of lower teeth, to obtain the antagonizing model for the Upper Dentures.

Price, each.....25 cents.

Partial Lower Impression Trays.

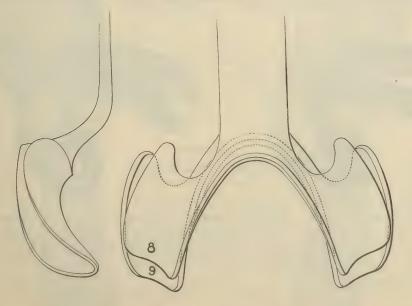
This Chart illustrates the sizes of a set of four, for Partial Lower Dentures, with an opening to allow the front teeth to pass through.



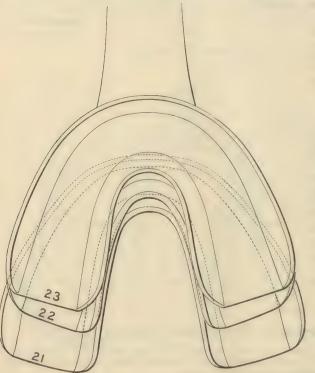
Lower Impression Trays for Undercuts.

In Trays Nos. 8 and 9, the rim is cut away, allowing it to be placed in the mouth with the impression material in it, and pressed downward and forward against the front teeth, procuring a perfect impression of undercuts or shelving gums.

Price, Lower Trays, for Undercuts, each......25 cents.



Deep Lower Impression Trays for Regulating.

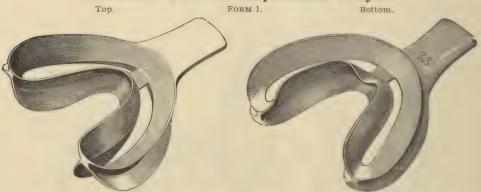


Nos. 21 and 22 are for cases where specially deep Trays are required. The lingual extensions are adapted to secure accurate impressions when the lower molars are missing.

The object of the No. 23 Tray is to supply a ready means of taking impressions of the entire lower crowns and gum in cases where only a few teeth are missing. For this reason the walls, both outside and inside, are made high and strong, and run out almost flush with the ends.

Price, Nos. 21, 22 or 23, each...... 35 cents.

Franklin's Lower Impression Trays.

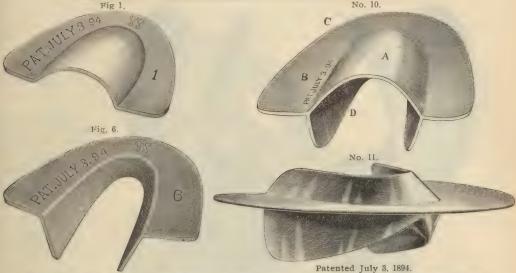


This form is known as Dr. B. W. Franklin's Impression Tray, of which there are three sizes for taking impressions in plaster for lower dentures. They are especially useful when the muscles are soft and flabby and higher than the maxillary ridge. They are readily extended or contracted by bending.

Price, each50 cents.

True Bite Plates.

Made by The S. S. White Dental Mfg. Co. Patented July 3, 1894. No. 10. Fig 1



A true bite and an accurate impression are prime factors in the process of making a successful complete or partial denture. To save time, get an exact tooth-length gauge and a correct articulation, the bite should be taken at the first sitting. This can now be readily done by the use of the True Bite Plates which we supply in eleven sizes: The Uppers are Nos. 1, 2, 3, 4, 5,—the cut, Fig. 1, shows the smallest size. The Lowers are Nos. 6, 7, 8, 9,—the cut, Fig. 6, shows the smallest size. The combined Upper and Lower Duplex are shown in Nos. 10 and 11. The soft, yet sufficiently stiff and thin metal of the Bite Plates may be sheared for change of edge contour, bent for adaptation, or cut with Plate Nippers for partial cases.

For detailed descriptions of the wide range of Bite Plate uses see the Dental Cosmos, September, 1894, page 692, and October, 1894, page 781.

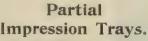
With a pair of Plate Nippers the operator may easily change either the upper or lower plate into a partial one by nipping out spaces to suit case in hand.

PRICES.

TRUE BITE PLATES. Upper, Nos 1 to 5.....each, \$0.20

2.25

Trial Set of Four, Nos 2, 3, 7 and 13. each.....



Suggested by Dr. H. H. Burchard.

We add the two new forms of Partial Impression Trays suggested by Dr. Burchard. They are designed for impressions of both upper and lower partials, and are especially adapted for bridge-work cases: No. 30 for either the upper left or the lower right, and No. 31 for the upper right or the lower left, as the case may be. may be.

PRICES.

Partial Impression Trays, Nos. 30, 31, each.....\$0.25





Partial Impression Trays.

Made by H. D. Justi & Son.



A.

These Trays are considered very useful for partial pieces of crown and bridge work.

A is intended for left upper and right lower. B for right upper and left lower.

> Price, each, 25 cents.



The Garretson Articulating Guide.

C. F. Garretson, Patentee, Knoxville, Iowa.

Marshall Dental Mfg. Co., Sole Agents.



This device gives entire satisfaction; has been tested by some of the best dentists, and receives their unqualified endorsement. There is no guesswork: but with a little experience in its use, any dentist of ordinary skill will know that he has a true bite. It is well illustrated in the accompanying cut.

DIRECTIONS FOR USE.

Place the rubber tips in the ears, and draw the band over the head, in such position that it will not slip forward or backward, and tight enough to hold the tips well back, so that they will fit snugly into the ears when pressure is placed on the chin. (It is well to let the patient hold the left one in position while adjusting band.) Then press the sliding bar firmly against the chin (with mouth slightly open) until the condyles are forced back into their sockets. It is better to get the proper fullness, and length of bite, and then adjust the guide to obtain the correct closure.

In single sets, if you prefer using soft wax for rim, place a small piece of wood, or some other hard substance, on the trial plate as a stop block, and

Articulating Forms.

Made by Lee S. Smith & Son, Pittsburg, Pa.

For use in technic teaching as indicated in Week's Technics.



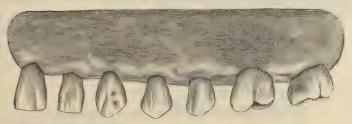
Made on correct principles at the request of numerous dental faculties.

The form as shown is made of brass of same proportion as regular articulator, and while having all the movements of that instrument, may be fastened open as desired.

Price, each.....\$1.50

Week's Rubber Tooth Forms.

Made by H. D. Justi & Son.

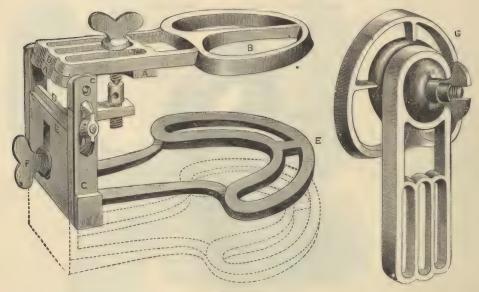


For use by students in the manual training system of Operative Technics. Adopted by the National School of Dental Technics. These Forms are designed to take the place of the tooth-brush handle formerly used. The base is slightly convex, in order that the cavities may be made.

The teeth are typical forms, thus giving opportunity for the formation of typical cavities. The material is easily cut, but dense enough to give good margins and to receive any of the usual filling materials. The teeth are so separated as to permit of easy access to all surfaces, and the student will gain much practice in contour for form.

Price, each 50 cents.

The Justi Articulators, Nos. 1, 2 and 3.



Nos. 1 and 2.

This illustrates Articulators Nos. 1 and 2. These are the same in every respect except that No. 2 is somewhat heavier than No. 1. Reference to the cut will show their peculiar construction and adaptation to convenient use in articulation. By loosening the thumbscrew F the lower jaw can be moved downward so as to largely increase the space between the jaws, as shown by the dotted lines. The upper jaw can be easily removed by turning the nut on the side of the frame half way round; this releases the spring C and the pivot can be lifted out of the socket.

No. 3.

This Upper Jaw of the Articulator attached to the frame by a ball and socket joint is the invention of Dr. D. L. Overholser, and is an addition to the other movements which make this the most perfect instrument and capable of the finest adjustment by which to correct errors that may occur in taking articulations.

PRICES.

No.	I,	See cut.	 1.75
No.	2	6.6	 2.00
No.	3	6.6	 2.50

B. D. M. Co.'s No. 9 Articulator.



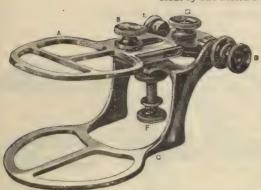
This Articulator is now made from new patterns, heavier and stronger than heretofore, and is probably the best cheap Articulator in the market.

PRICES.

No. 9 Articulator, plain.....each, \$0.80 No. 9 Articulator, nickel-plated.. "1.00

Articulators.

Made by The Boston Dental Mfg. Co.



This is the latest, and, we believe, all things considered, the best in the market. We are indebted to Dr. Lamkin, of Lynn, for valuable points in this Articulator which we have combined with improvements of our own, and the result is the instrument shown in the cut.

The upper jaw, A, slides backward and forward in grooves, so that by loosening the screw, B, this motion can be obtained without danger of lateral displacement.

There is a second plate upon

which the jaw A, moves laterally, and is controlled by the screw G, so that either of these important motions can be obtained entirely independent of the other.

The screw F, which adjusts the space between the jaws A and C, is provided

with a set-nut, which prevents it from unscrewing.

The screws D and E, which form the hinge, are cone-pointed, and furnished with set-nuts, so that the wear can be taken up and the movement always kept

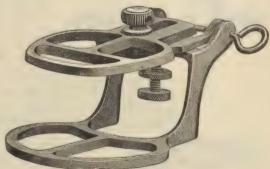
On plate A there is a series of graduating marks, by which the dentist can see just how much change he has made in the articulation.

This Articulator is strong and well made, and in many respects superior to the cheap ones now sold. It is plated, but not polished.

I KICLO.					
Plain	52.	0	0		
Plated	2.	50).		

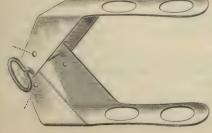
This Articulator is now made with three slots in upper jaw, instead of one as shown in cut.

Price......go cts.



Specimen Articulator.

Designed by Dr. W. H. Gillett, Newport, R. I. Specially adapted for arranging specimens, regulating work, can also be used in crown and bridge work, the holes in the sides allowing a range of 1/4 inch and 1/2 inch in adjustment of articulation—price 25c. The time saved in mounting specimens on this articulator will more than compensate the cost.



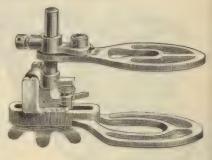
Dental Articulators.

Made by The Buffalo Dental Mfg. Co.

No. 8. Lewis Independent Motion Articulator.

In the construction of this Articulator, the desirable points in several Articulators have been combined with new devices, to produce a practical implement in every particular.

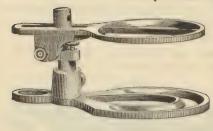
Every motion is independent. The means for correcting false positions in the bite are complete in every respect, while the range to accommodate different thicknesses of casts is ample. Substantially the same Articulator has been in constant use by the designer for several years, and has been found to be as near perfection as possible.



The hinge of this Articulator is constructed without a removable pin. It is easily taken apart by turning back the top of the Articulator to a right angle to the base, and pressing to the right. Decidedly the best Articulator made.

PRICES.

No. 4. The Snow & Lewis Articulator.



This Articulator is capable of adjustment vertically by means of a sliding post and clamping screw, so as to accommodate two casts, for a full upper and lower set, or one cast, for a single set. It is made from heavy castings and all the joints are nicely fitted. The adjusting screw is secured by means of a jamnut, so that there is no danger of losing the right length of bite, in handling the Articulator.

PRICES.

No. 5. Hayes Articulator.



This Articulator is the first one invented which dispensed with a removable pin in the joint, a part which is so easily lost or mislaid, and the absence of which causes so much annoyance.

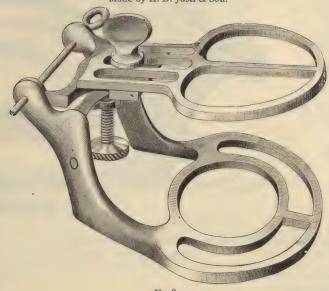
The Hayes Articulator is capable of all the motions required in an Articulator, and can be brought back to its first position, if desired, after a change, with ease and certainty. Each

motion is independent, and the self-locking device which constitutes the joint makes it a very desirable implement of the kind.

PRICES.

The Justi Articulator No. O.

Made by H. D. Justi & Son.



No. 0.

Many dentists like to have a considerable number of Articulators in the laboratory, yet do not care to invest in many of the higher priced ones. To meet this demand Mr. Justi has made the No. o, in which the vertical extension of the jaws is dispensed with.

This is a well made and reliable articulator, nickel-plated but not polished,

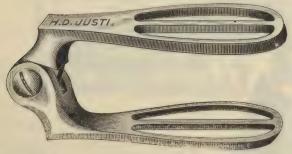
and will be found a good practical instrument in all ordinary cases.

PRICE.

No. o, Plain, nickel-plated.....\$0.90

Crown Articulator.

Made by H. D. Justi & Son.



Above cut illustrates a very useful little device for the adjustment and adaptation of partial dentures, for which it will be found very convenient, as it affords a view of the palatal surfaces of the teeth as well as of the buccal faces.

For small pieces of bridge-work and single crowns it is especially well calcu-

lated.

Price, nickel-dipped, each.....25cts.



Made of brass, handsomely finished in either lacquer or nickel-plate, so arranged that the top plate can be thrown all the way back.

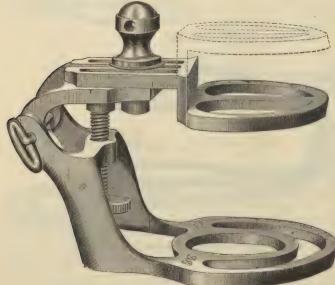
PRICES.

Polished and	Lacquered	.\$2.00
Nickel-plated	_	2.50

Articulator No. 6.

Made by The S. S. White Dental Mfg. Co.

This Articulator is a modification of No. 2, illustrated above, having all its movements. The modification consists in having its upper plate with a double bend, so that when reversed as shown by dotted lines in cut, the space between the plates is increased one inch, giving ample room for extra length of bite in upper and lower dentures.



PRICES.

Polished and	d Lac-
quered	\$2.00
Nickel-plate	d 2.50

Miscellaneous Articulators.

Made by The S. S. White Dental Mfg. Co.

PRICES.

No. 1each,	1.00
No. 4 "	2.50
Plain Line '	.90
Crown	.25

The Rochester Dental Mfg. Co.'s Articulator.



The Davis Gem Articulator.

This Articulator is made entirely of brass, polished or nickle-plated. We are the designers and original manufacturers of this very popular Articulator, which is perhaps more largely used than any other, for the fact of its convenience and adaptability.

PRICES.

Polished Brass		1.50
Nickle-plated	" · · · · · · · · · · · · · · · · · · ·	.75



The Rochester Dental Mfg. Co.'s Cleaning Powder.

For removing stains, grease and dirt from the hands. This does it immediately and perfectly, and leaves the hands soft and clean. When soiled with ink, dyes, paint, varnish, japan, tar, asphalt, printer's ink, or mineral stains, this will remove any of them quickly. It contains no acid or other injurious compounds that would injure the skin, but always leaves it smooth and soft.

Price, per Box.....25 cents.



Tramp! Tramp! Tramp!

How long have you been at it? Ever stop to think how much downright hard work a good

WATER MOTOR

would save you? There you have power limited only by the pressure in your main. There's hardly a town without its water works. There isn't a Dentist who can afford to be without a Water Motor.

The best Motor is the

TUERK MOTOR.

Best because it runs easiest. Best because it requires less water to operate it. Best because there isn't a thing about it to get out of order. Best because it's always ready.

Descriptive Circular for the Asking.

The Tuerk Hydraulic Power Co.

23 Vandewater Street,

39 Dearborn St.,

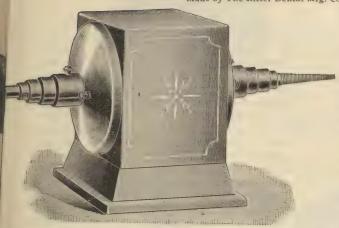
NEW YORK.

CHICAGO.

Orders can be Placed with Publishers of this Catalogue.

Laboratory Motor.

Made by The Ritter Dental Mfg. Co.



A special point of this Laboratory Outfit is the direct application of various instruments to the shaft of the motor. An important point, also, is our system of fastening the mandrels; instead of them being threaded, as they usually are, these have only a straight hole, and by means of an L shaped slot, cut through on one side and a pin inserted in the shaft to engage this slot, they are thereby securely locked, by simply sliding them over the end of the shaft and giving them a partial turn; a reverse

turn of the mandrels unlocks them. The bearings are large and self-oiling, and the armature is built up separately from the shaft, so in case of excessive wear to either shaft or bearings, these may be renewed without in any way interfering with the armature. The outfit may be carried to any location about the office, as it is entirely self-contained and not intended as a strictly laboratory instrument, although it is perfectly adapted to be used as such. A small knob at the side controls the speed.

Price of Laboratory Motor, \$44.00, which includes 8 mandrels. If Laboratory Motor is operated from batteries it will require at least six volts.

Electric Laboratory Lathe.

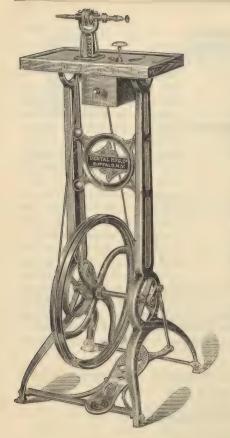
Made by The S. S. White Dental Mfg. Co.

Arranged to operate on the 110-volt Current. Height of stand to top of ash slab, 39½ inches; slab, 26 x 20 x 1% inches; floor space required, 26 x 25 inches. Frame of stand iron.

The wires attached to the binding-posts are for connection with the incandescent current; and the free ends of the wires which pass through the shelf immediately in front of the motor are attached to the motor binding-posts. The circuit is closed and the Lathe operated by pressing the pedal, which is pivoted to the floor. Almost any desired speed can be had at will by varying the pressure on the pedal. The resistance can be operated by the hand by placing it under the table top and dispensing with the pedal and the spring of the resistance lever.

PRICES.

Electric Laboratory Lathe complete, including clutch lathe-head and 10	
mandrels, lathe-stand, 1/8 horse-power Rhodes motor, variable re-	
sistance, and foot-pedal	\$64.50
Other motors and other lathe-heads can be substituted at value.	
Boxing	2,00
PARTS SEPARATELY.	
Clutch Lathe-Head, with 10 mandrels	13.00
Lathe-Stand	10.00
TIO-Volt Lathe Motor	28.00
New Iron and Enamel Variable Resistance	12.00
Foot-Pedal	1.50



Niagara Lathe Head and Stand.

This Lathe has been carefully designed throughout; and while it can be afforded at a less price than many others, it will be found on examination to be of good workmanship, of ample strength, and convenient in use. The distribution of metal in the stand is such that it is both light and stiff.

The head has a taper screw for brushes, a parting-nut for carrying a large wheel, and a split chuck, similar to the one employed on the B. D. M. Co.'s Standard Lathe Head for carrying pin-chucks, on which carborundum wheels can be mounted.

The head is also provided with a take-up to close upon the spindle as it wears. Provision is also made for taking up endmotion.

The head of the Niagara Lathe is from new patterns, and differs materially from the cheap jeweler's polishing head.

The hand-rest is furnished without extra charge when the head and stand are sold complete.



PRICES.

			and Stand,		
plete				9	\$9.00
Niagara	Lathe	Stand	only		7.00
Niagara	Lathe	Head	only		2.00
Niagara	Lathe	Hand	Rest only		.35

ALL DENTISTS

SHOULD USE

. . . The Backus Water Motor . . .

FOR DRIVING THEIR

Dental Engines and Lathes, or for Operating Ventilating Fans.

These Motors are made by the Backus Water Motor Co., of Newark, N. J., and are first-class in every respect.

We will gladly mail special circulars descriptive of these very useful appliances upon receipt of request.

The S. S. White Laboratory Lathes.



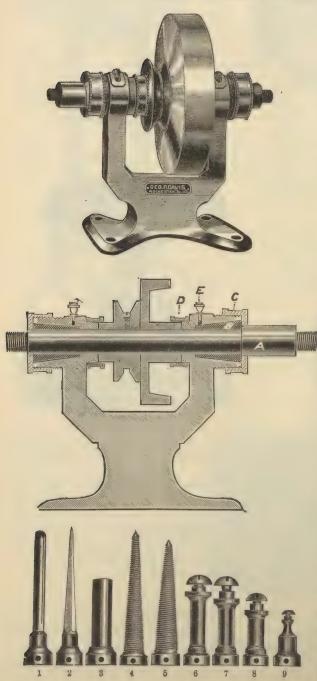
Lathe Cord and Couplings.



These Couplings are made of iron with threaded hole in each end into which the Leather Cord can be screwed.

The Noiseless Cone Bearing Lathe Head.

Made by The Rochester Dental Mfg. Co.

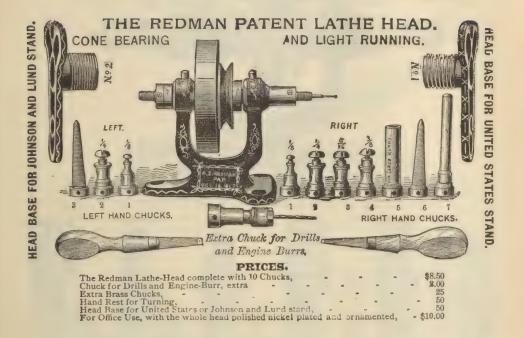


This new style Lathe Head has many recognized advantages which the sectional view will explain. The frame is made of brass; the spindle of tool steel, and the cone bearings of best quality hard brass.

By this means the smooth and lasting qualities are had which could not be otherwise obtained. smooth, easy and noiseless does this run that it can not be heard in the same room. As a more full explanation it will be seen that "A" is the steel arbor passing through the head block with screws on the end to take the mandrels "B" is the hard brassbearings to take up the wear and always keeps the arbor firm and true, being forced in place by the collar "C" screwed on to the arms of the lathe. ''C'' is the brass cap made for the double purpose, forcing up the cone bearings and to make a perfectly tight joint to keep out all dust and dirt from the bearings. ferule "D" being a brass collar lapping over the inside joint, protects them completely from the polishing powder, etc., that are used. "E," the oil cup, is also another protection of wearing parts for electric motor or where constant hard use is required.

We would recommend this Lathe Head as the best. All of the head is plated and polished. Price, complete with nine attachments, \$8.00

Still Ahead! \$8.50.



This Lathe Head has steadily increased in sale since it was first put upon the market, until to-day there are more Redman Lathe Heads sold and in use than any other two makes on the market.

It is acknowledged by the profession at large as superior to all others.

Before purchasing any other inspect the celebrated Redman Lathe Head, and we are sure you will have no other.

GIDEON SIBLEY,

SOLE AGENT,

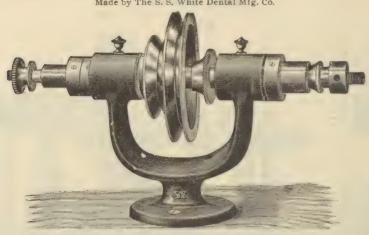
PHILADELPHIA.

CHICAGO.

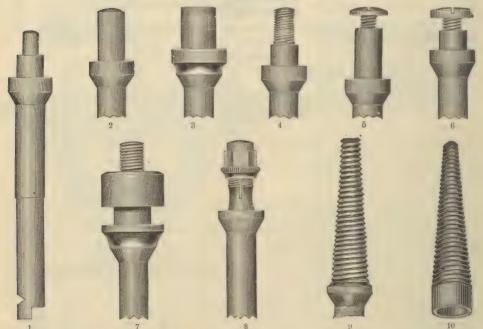
Clutch Lathe=Head, with Cone Journals and Cone Mandrels.

Patented March 7, 1882.

Made by The S. S. White Dental Mfg. Co.



Chucks for Clutch Lathe-Heads.



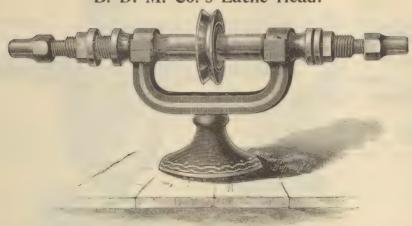
1		
	PRICE	ES.
Clutch Lathe-Head, complete,	with ten Mandrel	s\$13.00
	PARTS SEPA	
Head, without Mandrels	\$9.00	Mandrels Nos. 7 and 10each, \$0.60
Mandrels Nos. 1, 2 and 9	each, .25	Mandrel No. 8 " 1.00
Mandrel No. 3	11 .35	Mandrel No. 4, with thread for
Mandrel No. 4	" .30	Lawrence Lathe Chucks " .30
Mandrele Nos E and 6		

The S. S. White Dental Office Lathe.

Price	of	Lathe,	with	set	of	six	Corun-
dun	1 1	Wheels					\$20.00

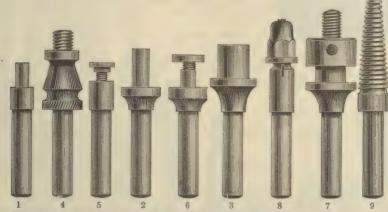
Boxing		\$0 75	
Head separatel	y, without	Chucks 3.00	

B. D. M. Co.'s Lathe Head.



This Head consists of a cast-iron standard and a cast-steel arbor, highly finished, forming one of the best combinations of wearing surfaces for light work that is known. The standard is neatly japanned (not painted), and the finished work nickel-plated.

On the arbor, next to each of the bearings, is a clamp-nut for large wheels, and in each end of the arbor is a socket for the reception of spindles, on which small wheels, brushes, etc., can be cemented.



The Chucks are designed to meet all requirements of the office and laboratory. Nos. 1, 2, 3 are for shellacking corundum wheels on. No. 4 will take the nut corundum wheel. Nos. 5, 6, 7 are screw-chucks for carborundum wheels, etc., and No. 8 will carry all the engine tools. No. 9 is a screw cone for brush wheels.

Head complete, with nine Chucks						KII.00
		SEPARATELY.				,
Head, without Chucks	\$8.00	Chucks,	No.	6	each,	\$0.45
Chucks, No. 1each					66	
" 2, 4 and 9"	.25				66	
" " 3 and 5						

Wood Cones for Finishing Vulcanite Plates.

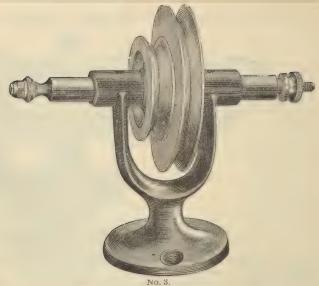
Suggested by Dr. N. C. Borneman.

These Cones are made of soft wood coated with corundum, coarse and fine grits. They are intended to screw on the taper end of a lathe spindle or on a taper chuck. The illustrations are full size.



The S. S. White Laboratory Lathe-Head.

Price, No. 3 Laboratory Lathe-Head, with Chucks Nos. 1, 2, 3, 4, and Wrench........\$5.00





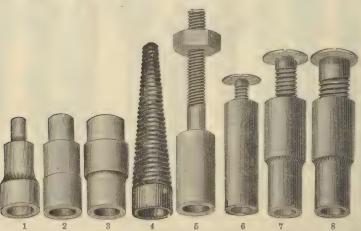
Large Wire Wheel.

Suggested by Dr J. M. Whitney.

For cleansing engine tools (burs) and files, and dressing down celluloid and rubber plates. It is shown full size; 15% inches in diameter, two rows of fine steel wire.

Price, each.....50 cents.

Laboratory Lathe Chucks.



Made with a plain collar on the inner end, and a screw at the lower end of the hole. They run perfectly true. Nos. 1, 2, 3 are for corundum wheels, which are fastened on with shellac. No. 1 carries wheels Nos. 00 to 4. No. 2 carries Nos. 5, 6, 7. No. 3 carries Nos. 8, 9, 10. No. 4 is a screw-cone, very convenient for felt wheels and cones. No. 5, collar-and-nut Chuck for brush wheels, cotton wheels, etc. Nos. 6, 7, 8, collar-and-screw Chucks for Carborundum wheels.

PRICES.

Chucks	Nos.	I, 2, 3ea	ach,	\$0.15	Chuck	No.	6each, \$0.40
6.6	No.	4	6.6	.25	6.6	6.6	7
6.6	66	5	6.6	.50	6.6	6.6	8 " .60

The Lawrence Lathe= Head.

Made by The S. S. White Dental Mfg.

The Lawrence Lathe-Head is so well known, and the cut shows it so clearly, that detailed description is unnecessary.

Price, Iron Lathe-Head, with two



The Brown Lathe Bath.

This device is believed to be one of the most perfect of its kind; the cup contains a wick, which is applied to the surface of the grinding wheel, keeping it wet without flooding it. The cup revolves on the pedestal and the latter revolves and slides on the screw which enters the bench, thus making it perfectly adjustable. It can

be fitted to any lathe by cutting the rod to the proper length. When used for the first time, that part of the wick contained in the tube should be wet.

Brown's Lathe Bath.....50 cents.

The Lawrence Driving Wheel No. I.

Made by The S. S White Dental Mfg Co.

Driving	W	heel	l.,	 	 		 	 	 	 				 		٠	9	ĴΙ	2.0	0
Boxing					 			 ۰	 	 					 				I.O	0
Springs Treadle	for	6.6		 			 	 	 			0 0							I.O	0
Treadle	6.6	6.6		 		۰				 									1.2	5

Rochester Dental Mfg. Co.'s Adjustable Lathe Bath.



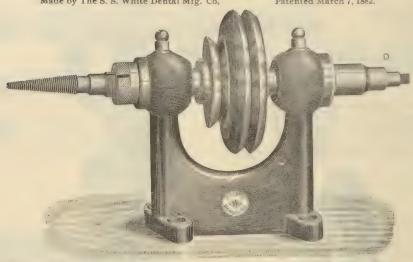


Adjustable Drip Cup for Made by The S. S. White Dental Mfg. Co. Lathes.

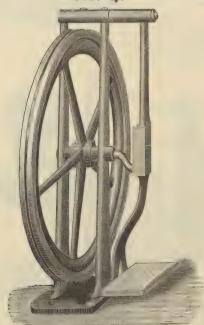
The Cup is adjustable on the stem and is held at any desired height by a clamp. Price, Plain Brass.....\$1.00

Nickel-plated..... 1.25

Unique Lathe=Head.
Made by The S. S. White Dental Mfg. Co. Pate Patented March 7, 1882.

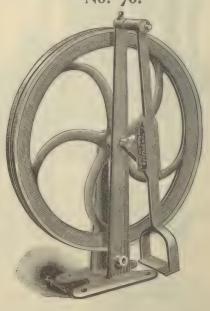


S. S. White Driving=Wheel No. 4.



THES. S. W. D. M. CO. Weight of Wheel alone, about 38 lbs. Price (Crated).....\$10.50

Buffalo Driving-Wheel No. 70.



Weight of Wheel alone, about 40 lbs. Price, Buffalo Driving Wheel No. 70.........\$8.00
Price, Buffalo Driving Wheel, Ball Bearings, No. 70A...... 15.00

Cone Journal Hand and Foot Lathe.

Made by The S. S. White Dental Mfg. Co. Patented April 18, 1882.

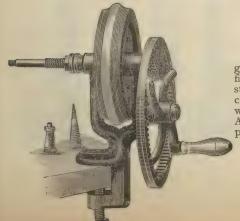


This Lathe is made with an adjustable chuck, split at both ends, which acts as a double clamp for holding the mandrels, thus giving them extra long bearings. The working parts are well shown in the cut.

The three mandrels and one chuck illustrated accompany the Lathe. Mandrel No. 4 will carry any of the chucks for Office and Laboratory Lathe, p. 442; No. 5 is suitable for carborundum wheels; No. 7 is for large carborundum wheels, brush wheels, cotton wheels, etc. Taper chuck, No. 4, is the same a that on page 442, and will fit No. 4 Mandrel.

Traveling dentists will find this Lathe a valuable addition to their outfit. Weight complete, eight pounds.

Price, including three Mandrels and one Chuck......\$7.00



Skeleton Hand Lathe.

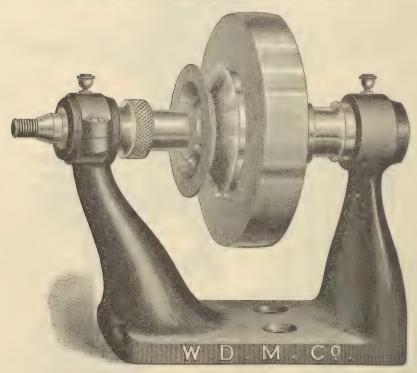
Made by Buffalo Dental Mfg. Co.

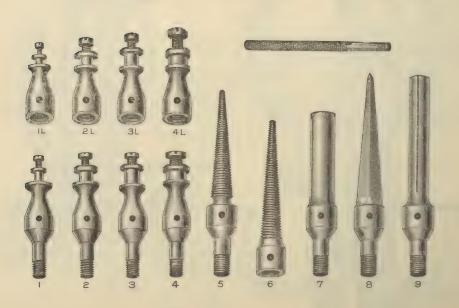
A very effective and desirable form of cheap grinding apparatus. The spindle carries a heavy fiy-wheel, which gives the apparatus strength and steadiness of motion. The price includes one chuck for brushes, and one for a small corundum wheel, which screw on the end of the spindle. A large carborundum wheel is carried between the parting nuts on the spindle.

		TC.		
Skeleton	Lathe.	 	 	\$4.50
Extra Ch	ucks	 	 	25

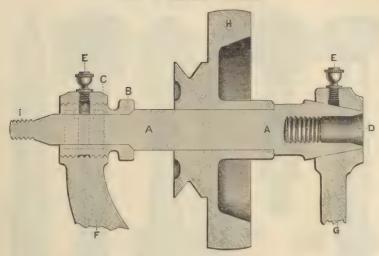
No. 8 Lathe Head.

With-Self-Centering Chucks. Cone Bearings.





No. 8 Lathe Head.



Chucks which are secured in the spindle by a thread and a cone of 60 degrees are more

durable and accurate than any others. Experiments have proved it.

The sectional illustration shows the construction of the working parts. The spindle A is of steel, and its right end D is bored out to receive the chucks. The bore is threaded at the inner end, and enlarged at the outer end in the form of a sixty-degree cone, which at the inner end, and enlarged at the outer end in the form of a sixty-degree cone, which increases the bearing for the chucks and at the same time secures them positively in the center. The left end of the spindle at I is practically the same as the end D, except that the thread and cone are reversed and somewhat smaller. The pulley H is of cast-iron, and is forced on the spindle A. Its smaller diameter is grooved for the driving belt, and its larger diameter is in the form of a balance-wheel, which insures increased steadiness while running. The bearing B is of bronze, and is threaded and held in place by the cap C, which is secured by a srew on each side of the center of the spindle into the standard F. By loosening these screws, the bearing B can be adjusted to take up any wear that may occur in it or the spindle A.

Lathe,	complete, with 9 Chucks	5.50
		. 25

Polishing Strip Chuck. Patented Nov. 18, 1888.

This device of Dr. F. C. Hinman's consists of a slotted wood chuck, with the portion which carries the Polishing Strips covered with felt to give it the proper surface. One end of the Strip is tucked into the slot, where it is held firmly by a wooden pin. The Polishing Strip Chucks can be used on any lathe with a screw mandrel, and will be found useful in polishing vulcanite plates, etc.

Price, Nos. 1, 2 or 3...... 20 cents.

Polishing Strips.

For use with the Polishing Strip Chuck. Made of emery paper. Now put up in boxes containing 100 strips, assorted grits.

Price, per box, for No. 1, 20c.; for No. 2, 25c.; for No. 3, 30c.

Felt Wheel Chucks for Laboratory and Lawrence Lathes.

Suggested by Dr. F. E. Pomroy.



Made of brass, with three steel pins, as shown in cut, to prevent the felt wheel from revolving on the screw. May be ordered as No. 9 of set of Laboratory Lathe Chucks. When ordering, state Lathe for which it is wanted.

Price, each.....50 cents,

No. 9.

Vulcanite Burs.



No. I, Shank for U. S. & Best Lathe-Heads.

'' 2, Shank for ''Best' Lathe-Head.

'' 3, Shank for Laboratory Lathes Nos. 3 and 4 and Unique.

'' 4, Shank for Cone-Journal Lathe-Head.

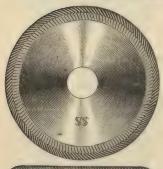
'' 5, Shank for Clutch Lathe-Head.

Each form of head is made with each of the shanks shown, adapting them for use in prices lathe head. the various lathe-heads:

In ordering, be careful to specify the Lathe for which they are wanted.

Burs, Nos. 1, 2, 3, 4, 5, for Clutch Lathe-Head. \$1.50

Circular Files or File-cut Wheels.









Designed for Vulcanite work. Diameter, width, and cut, as shown. Size of holes, 5 inch in diameter.

Flexible Steel Scratch Brush.

Suggested by Dr. T. M. Hunter.



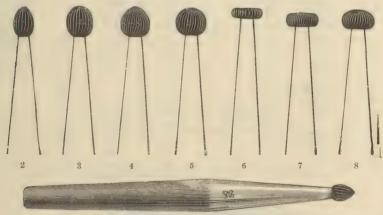
A flexible Steel Wire Brush for the removal of silex and very small globules of rubber from the palatine surfaces of rubber plates. It may also be used, held firmly, to follow the scraper in smoothing up all the polished parts. The wires can be trimmed with plate shears whenever dull or bent.

Price 25 cents.

Solder Burs.

FOR TRIMMING OFF SUPERFLUOUS SOLDER.

The set of eight Solder Burs are made for all of the Lathes named in the advertisement of the Vulcanite Burs (see preceding page.)



No. 1. Full Size, for United States and Lawrence Lathes.

The S. S. White Lathe Table.

The special point to which we ask attention in this Lathe Table is its substantiality. The frame is iron, strongly bolted together, with sufficient spread to sit firmly on the floor without occupying too much space. Screwing the feet to the floor confers additional rigidity. The Table is a substantial selected ash slab, 26x20x1% inches, firmly bolted to the top of the frame, with the heads of the bolts countersunk. The frame occupies a floor space of 26x25 inches, and the top of the Table is 39% inches from the floor. The frame and table, excluding lathe-head and driving wheel, weigh 85 pounds.

PRICES

Lathe-Table, Head (Clutch, with 10 Mandrels), and Driving-Wheel	
(Lawrence's No. 1), complete with Cord and Coupling	35.00
Lathe-Table, Head (Unique, with 8 Mandrels) and Driving-Wheel	
(S. S. White No. 4), complete with Cord and Coupling	29.50
Other combinations may be substituted at value.	
Lathe-Table, separately	10.00
Boxing	

Wood-Center Brush Wheels.

The prices quoted are for single brushes. Rates for quantities are greatly reduced. They are as low or lower than brushes of equal quality can be made and sold by any other house in the trade.

Straight Bristles.



No.	Rows	Bristles	Diameter	Each	1	No.	Row		Diameter	Each
3.	I	Stiff	1 3/4 in.	\$0.10		59.	2	Medium		
4.	I	4.6	17/8 "	.14		58.	2	Stiff	31/4 "	\$0.40
i.	2	4.4	11/2 "			57.	2	Soft	31/4 '	7
2.	2	6.6	I 1/2 "	.15	i	56.	2	6.6	31/2 "	
	2	Soft	134 "			55.	2	Stiff	31/2 "	.45
10.						18.		Soft	3/2	
6.	2	Medium	- 74				3		2	.28
8.	2		174	.18		17.	3	Stiff	2)	
.5-	2	Stiff	134 ., [!	26.	3	Soft	23/4 11	0.4
7.	2	4.6	13/4 "			25.	3	Stiff	23/4 11	-34
9.	2	6.6	134 "			50.	3	Soft	3 "	.37
II.	2	Soft	17/8 "			31.	3	6.6	31/2 "	.31
14.	2	"	1 7/8 "			34.	3	6.6	31/2 "	.50
		Medium	1 7/8 "	.20				6.6		
13.	2					39.	3	6.6	3/4	.70
12.	2	Stiff	178			42.	3	4.6	374	- / -
19.	2	Soft	21/2 "			30.	4		3	4.4
22.	2	6.6	21/2 "	25		29.	4	Stiff	3 " ;	.44
21.	2	Medium	21/2 "	.25		38.	4	Soft	31/2 "1	
20.	2	Stiff	21/2 "			37.	4	Stiff	31/2 "	.62
27.	2	Soft	31/4 ")			46.	4	Soft	334 "	
60.	2	"	31/4 "	.40		45.	4	Stiff	33/4	.72
0 0.	12		3/4				6	Soft		
						64.			3	.65
						63.	6	Stiff	3 " 5	

Converging Bristles.

No. Ro 54. 2 53. 2	ws Bristles Medium Stiff	Diameter 3½ '' }	Each \$0.45	No. 41.	Rows 3	Bristles Medium Stiff	Diameter 334 " }	#0.70
16. 3 15. 3	Medium Stiff	2 " }	.28	28. 27.	4 4	Medium Stiff	3 "}	.44
24. 3 23. 3	Medium Stiff	23/4 " }	•34	36. 35.	4 4	Medium Stiff	3½ " }	.62
47· 3 49· 3	Soft Medium	3 "	-37	44.	4	Medium Stiff	33/4 "	.72
48. 3 33. 3 32. 3	Stiff Medium Stiff	3 1/2 " }	.50	62. 61.	6	Medium Stiff	3 " }	.65



Cup Shape.



No.	67.	I	Row,	Medium	Bristles,	2	inches	diameter	e	ach,	\$0.14
	68.	1	6.6	Stiff	4.4	2	-6.6	6.6			.15
6.6	76.	3	Rows,	Soft	6.6	2	1/2 11	6.6		"	
6.6	78.	3	CE	Medium	L 66	21	2 66	fi		66	.30
6.6	77.	3	6.6	Stiff	4.4	21	6 11	6.6		66	-5-
6.6	69.	3	6.6	Soft	6.4	3	6.6	4.6		"	
6.6	71.	3	6.6	Medium	4.6	3	6.6	4.6		66	.34
66	70.	3	6.6	Stiff	4.4	3	6.6	6.6	******	16	.54
		_				_				,	

Wood-Center Brush Wheels.



Cup-Shaped Bristles, Long Wooden Shanks.

No. 51. 2 Rows, Stiff Bristles, 1¾ inches diameter.....each, \$0.18 No. 65. 2 Rows, Stiff Bristles, 1¾ inches diameter..... '1 .24

Straight Bristles, Long Wooden Shanks.

No. 52. 2 Rows, Stiff Bristles, 1¾ inches diameter.....each, \$0.18
'' 66. 2 Rows, Stiff Bristles, 1½ inches diameter.....'' .24





Hub Shape.

No.	74.	Soft	Bristles,	1½ inch diametereach,	\$0.32
6.6	72.	Medi	um Brist	les, 1½ inch diameter'	. 32
6.6	73.	Stiff	Bristles,	1½ inch diameter"	.32
			HUB SH	APE, CONVERGING BRISTLES.	
No.	85.	Stiff	Bristles,	34 inch diametereach,	\$0.18
4.4	86.	4.4	6.6	I	. 22
4.4	87.	4.4	6 6	11/8 "	. 30

Brush Wheel Reamers.

For fitting wheels having wood centers to taper screw chucks. Price, each, 75c.

Wood-Center Cotton Wheels.

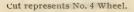


Cut represents No. 88.

No.	79.	ī	Row,	13/	inches	diamet	tereach,	\$0.12
6.6	80.	2	Rows,	I 3/4	6.6	1.6		. 20
6.6	81.	2	66	2	6.6	6.6	((.20
6.6	82.	2	6.6	23/	4.4	6.6	6.6	.24
. 6	83	2	6.4	23/	5.5	4. 6.	((. 34
6.6	84	J A	6.6	2	6.6	6.6		.40
	040	- 64		J			*******	, -y

Polishing Wheels and Cones.







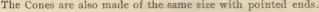
Large Cone.



Small Cone.

Felt Polishing Wheels and Cones.

Felt Wheel,	No. o,	% inches	diameter	each,	\$0.10
	" I.	I 1/8 66	6.6	((. 15
6.6	" 2.	T 5/6	6.6	((. 15
6.6	((2	21/ 10	. 66	((. 25
"	11 A	21/2 11	4.4	66	.25
" Knife	Edge.	The inch	es diamete		. 15
"	I Trage,	13/ "	((6.6	. 15
"	6.6	21/ 66	6.6	6.6	.25
	4.6	21/2 66	6.6	66	.25
Small Felt	'one	T3/ 11	6.6	1½ inches long	.10
Large "	LOHE	174 66	4.6	T 3/ ((((.20
0	-1	41.		:41:	, 20





Very Small Felt Cone.

Suggested by Dr. H. A. Robinson.

This Cone is designed to reach difficult spaces when polishing plates. Its shape is satisfactory for general use. When for a particular case it is wanted a little narrower or more pointed, it can easily be trimmed to the desired shape.

Price,	per doz \$0.75
6.6	each

Carborundum Powder.

On a felt wheel applied to a steel instrument will put a polish on it that no other abrasive can equal. Doesn't make any difference what the condition of the instrument is. Rust doesn't mean anything to Carborundum. The stuff seems to like work.

Price, per box......15 cents.

Chamois-Skin Polishing Wheels.



The Wheels, as shown in cut, are composed of several thicknesses of the skin sewn together, so that, while the rim has sufficient flexibility to adapt it to the uneven surfaces of dental plates, it has firmness enough to keep it in proper form when used on the lathe.

By the use of these Wheels a great deal of time and labor will be saved in polishing crown and brigde work and all other metal dental plates.

To obtain the best results, use the finest quality of rouge.

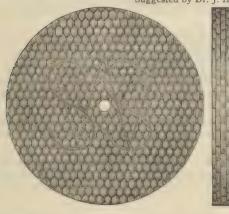
Made in three sizes.

PRICES.

3	in	ches:	in	diamet	er\$	0.40
2	1/2	6.6	6.6	6.6	***************************************	
2		. 6 6	6.6	6.6	******	

Cotton=Duck Buff Wheels and Cones.

Suggested by Dr. J. H. Mease.





The Wheels are made in four sizes, ranging from 11/8 inches to 21/2 inches in diameter. Cut shows No. 3. The large Cone is shown actual size.

PRICES.

Wheels, No. 1,	11/2 inches dis	ameter	6	each.	\$ 0. TO
" " 2,	I 5/8	6.6		66	.20
" " 3,	21/4 "	6.6	***************************************	6.6	. 30
" 4,	21/2	6.6		6.6	.40
Large Cones, 2	inches long,	inch	diameter	6.6	.40
Small "	13/8 "	I "	((6.4	.20
Extra small	***********			6.6	.IO

Abrada.

Fine, for polishing Vulcanite. No. I.

Medium, for grinding Vulcanite.

3. Fine, for polishing metals.
4. Medium, for grinding metals.
Put up in oval sticks 4x1¼x¾ inches, each stick in a separate box and neatly labeled. Sold separately or in boxes containing sets of the four.

PRICES.

Abrada Nos.	I and 2	each, 15	cents.
66 66	3 " 4	" 25	6.6
In box of fo	ur	70	4.4

Composition Cones and Wheels.

Patented by Dr. L. M. Halsey, April 29, 1890.

For Finishing and Polishing Rubber and Metal Plates.









No. 1.

These Wheels and Cones make quite an advancement in the manner of dressing and polishing rubber and metal plates. It has been well known for many years that a cork is far superior to any other known appliance for polishing. With this knowledge in view Dr. Halsey has patented a composition of which cork is the principal ingredient, and is held together with sufficient rubber to make it strong and flexible, allowing all the advantages of the cork and avoiding its disadvantages in breaking and crumbling.

This composition is far superior to anything that has ever been put upon the market for carrying and retaining the polishing powders. It does away with the file, scraper and

sand paper.

If the case is waxed up reasonably well before vulcanizing, the plate can be finished complete with the composition cone and wheel without the use of any other instrument or material except the polishing powders, and an ordinary plate should be ready for the mouth in from five to ten minutes.

Wheels.

No.	Ι.	Square	edge,	23/8	inches	diameter,	1/2	inch	thick	c30	cents.
6.4	2.	-6-6	6.6	2	4	6.6	1/2	6.6	4.6	20	* *
6.6	3.	6.6	6.4	I 1/2	6.6	6 6	1/2	4.4	4.6		4.4
6.6	4.	Round	166	17/8	6.6	6.6	1/2	6.6	6.6	20	6.6
6.6	5.	6 6	" G	11/2	4.4	1.6	1/2	6.6	E 6	15	6.4
6.6	6.	Knife	4.4	17/8	6.6	6.6	1/2	4.6	6.6	20	< 6
6.6	7.	6.6	6.6	I 1/2	6.6	6.4	1/2	4.4		15	
										~	

Cones, Pointed and Round End.

No.	T.	I 3/4	inches	long,	I inch	thick	25	cents.
6.6	2.	1 5/8	6.6		7/8	6.6		6.6
6.1	3.	I 1/2	4.6	6.6	3/4 66	6.6	IO	s 6

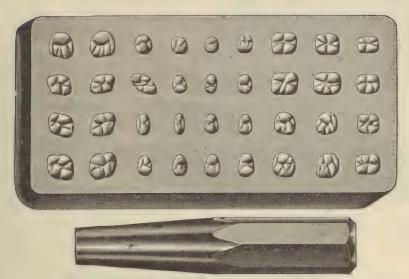
Shellac for Mounting.

Prepared in sticks ¼ inch diameter, 3 inches long. Also carried in stock in powder. Very useful for many purposes in laboratory.

Price,	in	sticksper bo	K, 25	cents.
4.6	6.6	powder	IO	cents.

Mitchell's New Steel Die.

For Cap Crowns and Bridge Work.



The plate is 6% inches long, 3½ wide by % thick. Made of fine steel, case hardened, highly finished and contains a variety of sizes and shapes (thirty-six), making it the most convenient Die ever offered. Much time and material will be saved by having at hand a Die the exact size needed. Being made of steel, it enables one to strike at once a solid gold cusp, if desired, by melting scraps into nuggets of convenient size and driving into the Die selected. Or by covering the Die with a piece of No. 32 gold plate and placing a leaden bullet thereon and driving into the Die, a perfect shell results.

Full directions accompany each Die.

Dr. Geo. W. Melotte's Improved Gold Crown Dies.





The notable points claimed by Dr. Melotte for his set of Improved Crown Dies are convenience and compactness. The set consists of sixteen dies and a handle or holder. The die-heads are provided with a shank to fit the socket in the holder, in which it is held securely by a spring. The die heads are of bronze, the handle of steel.

The set is put up in a neat case about 6 by 3¼ by 1¾ inches.

The Morrison Seamless Crown Outfit.



Designed for forming seamless cap crowns, seamless collars and shells for all forms of crown and bridge-work. A seamless cap of the desired size is made by driving a disk of metal successively through the holes in the steel draw plate, and the cap given the desired tooth form in the die plate made specially for this method.

made specially for this method.

A seamless gold or aluminum cap crown for any molar or bicuspid can be made in a very few

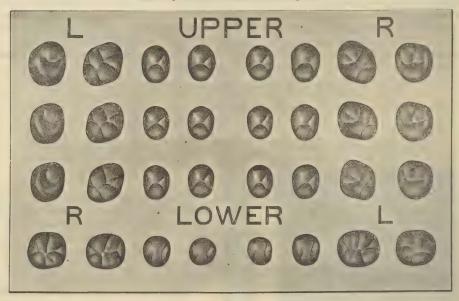
minutes.

Water-tight dummies for bridges are obtained by making seamless crowns and soldering plate over the open end.

Incisor and cuspid crowns are made in two pieces in a fusible metal mould cast in the little square clamp.

Improved Crown Die-Plate and Hub-Mould.

Made by The S. S. White Dental Mfg. Co.



The Die-Plate contains 32 depressions, 16 molars and 16 bicuspids. It is made of a special netal. The Hub-Mould is made of cast iron. Full description and directions for use accompany each apparatus.

PRICES

Die-Plate	00
Hub-Mould	00

Die Stamp for Forming Gold Crown.

Made by The Rochester Dental Mfg. Co.



Carborundum Files for Crown and Bridge Work.

Flat.

Half Round.

Cuts show about two-thirds size.

These Carborundum Files are head and shoulders over anything that has ever been offered. Carborundum cuts metal just as well as it does porcelain. When it occurs to the man who is fussing around, dropping his tools while he grinds that tooth down just a little more, that in these files he has something that will cut first the metal part of his bridge and then dress down the tooth itself, he is bound to add both forms to his outfit. Sure to do it. You couldn't buy them from him after he has tried them either—if he couldn't replace them with others.

Half Round Carborundum File, any grit.......50 cents.
Flat

Gold Crowns.

IN STOCK AND MADE TO ORDER.

We have branched out here. We sell the best Crowns we can buy anywhere. We have a stock from which we can accurately fit any case that may be sent us.

We do not carry Crowns for front teeth in stock. We make them to order. We make them in a hurry but we make them right. No person can make them any better.

We make bridge-work too. We cannot quote any prices on it, but will cheerfully send estimate when we see the cast. We have to see the cast to know.

The Rynear Gold Crown.

Patented Sept. 16, 1884.

H. D. Hanway, Sole Agent, New York.

There are more Rynear Crowns being sold each successive year. There are no other Crowns made that will compare with them. No dentist can build a crown of better shape. The contour is perfect. They are the shape of natural teeth.

They are uniform. By uniform we mean that if number five is the size wanted to-day, and the same size is wanted next month or next year, and the same number is ordered, the second crown will be an exact duplicate of the first, Not almost the same, but exactly.

The Rynear Crowns are seamless. They are made of 22 karat gold. The grinding surface is gauge 29, Stubbs. The bands are gauge 31, Stubbs.

We don't believe any case can be found that we cannot fit from this set of 60 Crowns. They vary in diameter only one thousandth of an inch, from abnormally small to abnormally large of each class. All of these Crowns are made of extra length.

There are 60 Crowns in the full set. Thirty-six molars and 24 bicuspids. This comparatively small number should enable Dentists using them to keep a full set on hand. The set is one of those things that pays for itself in a short time. The Crowns are always ready for use.

PRICES.

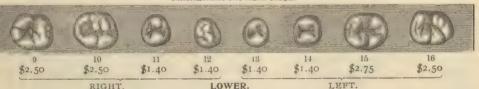
Set complete, Crowns, in neat leather case,\$12	25.00
Molars, 22 karat gold,each,	2.50
Bicuspids,	2.00

Crowns of 24 karat gold made at a cost of \$1.00 extra per crown.

Solid Gold Cusps for Crown and Bridge Work.

\$2.50 \$2.75 \$2.00 \$1.60 \$1.60 \$2.75 \$2.50

Thickness of the Gold Cusps

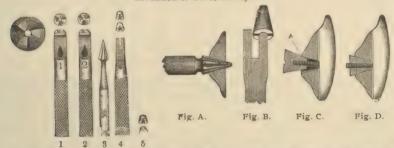


Complete Set of Sixteen.....\$33.00

Made of 22-carat gold, and designed to be soldered to seamless or other gold bands fitted to the natural tooth-roots in the mouth. Also intended to form the masticating surfaces of porcelain crowns in bridge work.

Bridge Repair Tools.

Invention of Dr. B. A. Bryant.



Each pin of the selected tooth-facing is to be screw-threaded with Die No. 1, first oiling the pin and finishing it with Die No. 2. The pin-holes in the bridge backing are countersunk from the rear with the right-angle Engine Reamer No. 3 (see Fig. A). With the Nut-Driver No. 4, one of the Gold Nuts No. 5 is caught on one prong (see Fig. B), and started on one of the pins (see Fig. C), and then the other nut is likewise started. Turning one after the other, the nuts are screwed tightly on, and then with engine points, the projecting pins and nuts (see Fig. D) are ground flush with the backing.

The numbered cuts show the exact sizes of the tools, which (except No. 3) are operated with thumb and forefinger. Reamer No. 3 is fitted for all right-angles.

Wire Soldering Frame.

For Crown and Bridge Work.

Devised by Dr. C. L. Alexander.

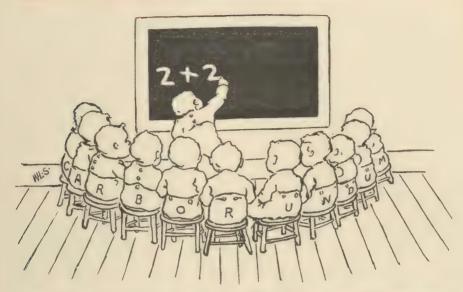
Wire Soldering Frame, each......15 cents.

SEAMLESS GOLD COLLARS FOR CROWN AND BRIDGE WORK. COPPYRIGHT, 1886, BY THE S. S. WHITE DENTAL MFG. CO.

4 5 6 7 8 9 10 11 12 13 14 15 40. 42. 42. 50. 62. 50. 50. 50. 62. 60. 62. 62. 62. 62. 62. 62. 62. 63. 64. 65. 64. 65. 65. 65. 65. 65. 65. 65. 65. 65. 65						
81.8 81.6 81.74 14 42 43 44 44 616 eircumferences of the under the straight line corps sedler two Collars togethes a series of three widths while	80 80 81.22 81.22 Collars. c. espondi	\$1.22	30	15	The second second	(
\$1.00 000. \$1.12 000. \$1.12 000. \$1.13 000. \$1.14 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15 000. \$1.15	\$1.17 \$1.17 \$1.17 \$1.74 es of the trine corr st trine corr widths will	\$1.17	67	620.		-
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4 5 6 7 8 9 40c. 42c. 45c. 48c. 50c. 52c. 48c. 50c. 52c. 48c. 50c. 52c. 53c. 54c. 55c. 52c. 53c. 54c. 54c. 54c. 54c. 55c. 55c. 55c. 55	4 5 6 7 19 20 21 22	780.	2.1	6 ()		
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to the man was a second and the second and the man was a second and the man was a second and the	10 88. 88. 88. Was Man	286	91	346.		O

with the series next larger: thus providing for the use of these Collars in removable cap or crown operations.

Here's a Proposition



It is really too simple to discuss. Two plus two isn't any simpler. The facts in the case are known by every dentist in the land.

Carborundum will cut porcelain faster than any other thing on earth except the diamond.

For permanent work. For "a light touch for a moment." Wet or dry. It saves three hours out of four. It is good all the time.

Carborundum Lathe Wheels haven't a bit of shellac about them. They are vitrified. They are baked just as a tooth is baked. The shellac in other wheels melts when you use them. It gets into the tooth. It stays there. The result is Black Joints. You can't melt a Carborundum Wheel. You can't tire it out. You can hardly wear it out.

When it cuts so fast you have to hold it back.

When it helps prevent dark joints.

When it may be used wet or dry.

When it is sold at practically the price of common wheels.

Is there one dentist who is not using Carborundum? If not—why not? That's the proposition.

LEE S. SMITH & SON,

SOLE AGENTS.

DENTAL DEPOT,

PITTSBURG, PA.

The Carborundum Co., M'f'rs, Niagara Falls, N. Y.

The price list is on page 462.

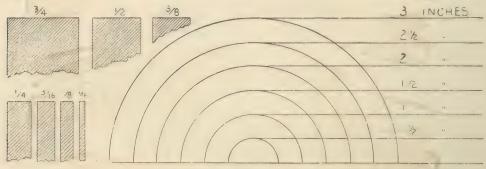
The guarantee is there too.

Carborundum Dental Lathe Wheels.

If there is a dentist anywhere whose Carborundum Wheel has worn untrue or has become glazed or worn smooth, or is not doing good work in any way, or from any cause, if he will send it here with return postage he may have a new wheel to replace it, or get his money back, as he prefers.

Every Carborundum Wheel that bears our label is guaranteed. Uncondi-

tionally.



SQUARE EDGE.

	INCHES.		1 1_			Іленка.			INCHES.			1			
No.	Diameter.	Thickness.	Center Hole.	PRICE IN CENTS.	No.	Diameter.	Thinkness.	Center Hole.	PRICE IN CENTS.	No.	Diameter.	Thickness.	Center Hole.	PRICE IN CENTS.	
1	j	1 6	3 7	18	9	1 1/2	3	1	35	17	21	1 8	16	50	
2	1/2	lg g	3 2	18	10	1 ½	1/2	1	38	18	21	j	16	60	
3	1/2	T6	3 2	20	11	2	18	1 4	35	19	3	1 8	3 8	50	
4	1	18	1 6	23	12	2	14	1	40	20	3	l i	238	50	
5	1	1	3 T 6	25	13	2	31	14	45	21	3	23	35	60	
6	1	3 8	3 T 6	27	14	2	1/2	1	50	22	3	1	3	70	
7	1 ½	18	1	30	15	2½	븅	5 T 6	40	23	3	3	88	90	
8	1 ½	1/4	14	32	16	21/2	1/4	5 T 6	40						

ROUND EDGE.

30	1 2	16	3 2	20	37	1 1 2	1	1	37	44	21/2	3	15 T 6	55
31	. 1/2	18	3 2	20	38	1 1 2	38	1	40	45	3	18	13	55
32	1/2	13 G	3 2	23	39	2	1 8	1	40	46	3	14	13	55
33	1	18	5 3 2	28	40	2	1	1	45	47	3	38	13	65
34	1	1/4	3 2	30	41	2	32	1	50	50	11	Thin	Edge	0.5
35	1	3 8	32	32	42	21/2	į į	16	45	30	14	Thick	Center	30
36	13	1.	1	35	4:3	23	1	5	45	51	3			60

Five Grits, A, B, C, D & E. Coarse to Fine.

Price List of Machine Wheels for Metal Work furnished on application.

SOLE AGENTS:

LEE S. SMITH & SON,

DENTAL DEPOT,

524 Penn Avenue, PITTSbuRG, PA.

The Carborundum Co., M'f'rs, Monongahela, Pa.



Our Gold Solders.

Put in envelopes as illustrated above are rapidly taking the lead over every other brand on the market.

Dentists always quick to appreciate a really good article find in NEY'S SOLDER one of GREAT STRENGTH, and at the same time SOFT and EASY FLOWING.

Another most important feature is the COLOR, which if used in connection with our Plates of corresponding Karat will be found entirely satisfactory. We would ask a trial that you may be convinced of its superiority.

PRICES.

Gold	Solder	for	14	k.	plate,		\$.77
6.6	44	6.6	18	k.	66		93
44	66		20 22		44	•	 .02

FOR SALE AT ALL THE LEADING DENTAL DEPOTS.

W.H.DODD & CO.LITH. HARTFORD, CONN



Our Gold Plates

20 DWT. 30 GAUGE. Of 18, 20, 22 and 24 Karat

Are preeminently superior to every other brand on the market.

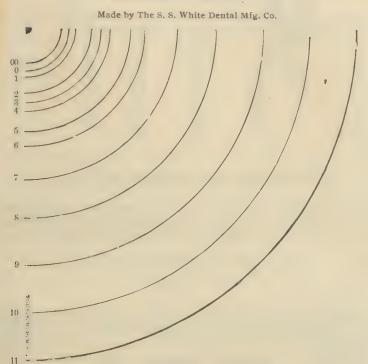
For Crown work these plates, for convenience, are put in envelopes of various sizes and gauges. ID DWT. 30 GAUGE

They are uniformly SOFT and TOUCH, MIRROR FINISHED and of the RICHEST POSSIBLE COLOR.

The Leading Gold Workers throughout the Country speak in highest terms of NEY'S GOLD PLATES and SOLDERS, and Dentists using them can rely on getting the best that can be produced.

Diagram of Diameters of Corundum Wheels

From No. oo to No. 11.



Price List of Corundum Wheels.

THICKNESSES OF WHEELS IN INCHES.

			THICKN	ESSES OF	MUEET'S II	INCHES.	
No.	Diameter.						
		14	3/8	1.2	58	3/4	I
00	3/4 inch	\$0.05					
0	7/8	. 05					
I	I "	.06	\$0.10	\$0,12	\$0.14	\$0.16	\$0.20
2	1 78 "	.12	. 14	. 16	. 18	. 20	. 24
3	158	. 15	.17	. 20	. 22	.25	. 30
4	134	. 18	. 22	. 25	. 28°	. 32	.40
5	218 "	. 20	.25	. 30	. 35	.40	.50
	212 "	.25	.30	- 35	.40	. 45	.55
7	3,1s ''	.40	.50	.60	.70	.80	1,00
	4 ''	.60	-75	. 90	1.00	1.10	1.25
9	5 ''	.80	1.00	1.20	1.35	1.50	1.60
10	6 ''	I,00	1.25	1.50	1.75	2.00	2.50
II	7 ''	1.25	1.60	1.95	2.30	2.65	3.35

The $\frac{1}{4}$ -inch Wheels Nos. o to 7 are made both round and square edge. All others square edge only.

Articulating Wheelea	ach,	20 (ents.
Small Cup			
Large ''			
Cone		15	6.4
Depressed Centre			

Gold Solder.

Made by The S. S. White Dental Mfg. Co.

This is a Solder that may always be depended upon. It is all there. The karat of the Solder is the karat stamped upon each piece. Not almost, but just.

PRICES.

14	karat,	per dv	vt	\$0.77
16	66	66		.85
		6.6		
20	6 6	6.6		1.02
22	6.6	8.6	***************************************	1.12
Co	in,	, 44	***************************************	1.12

Miscellaneous Precious Metals.

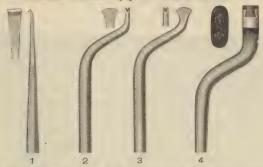
This is an important branch of our business. We have immense capital invested in this department. The difference between cost and selling price is so close that our terms for Precious Metals are strictly cash. Customers are requested to send cash with orders.

Aluminum Plateper Troy oz.,	\$0.20
" Ingotseach,	.20
Gold Plate, see pages 463-464.	
" Solder, see pages 463-464.	
Prepared Gold Solder Filings, 18 karat, in 1 dwt. bottlesper dwt.,	1.00
	1.10
Crown Metal (one side pure soft Platinum, the other pure Gold, equal parts, the best	
combination for metal crowns ever made)per dwt.,	1.15
We can also supply a Crown Metal of Gold and Iridio-Platinum, making a harder and	
stiffer metal, at the same price.	
Gold Wire, 18 karat, round and half-roundper dwt.,	1.05
" 20 "	1.15
" alloyed with Platinum (Clasp)"	1.15
" Spiral Springs, 10 karat"	.80
" " " 18 "	1.15
"Spring Attachments, 4 in a setper set, \$6.00; each,	1.50
Platinum Plate	
"Wire, round, square and triangular and iridium plate	tuoto
	tuate.
" Foil for Crown and Bridge Work (thickness of Gold Foil No. 30)	
Silver Plate, coinper oz., \$1.20; per dwt.,	.08
" pure " 1.30; "	.09
" Clasp " 3.00; "	.18
" Wire, pure " 1.75; "	.12
" coin " 1.60; "	.IO
" Solder " 1.15; "	.07
"Precipitated per oz.,	1.50
Granulated (5-oz. lots, per oz., \$1.20)	1.50
" Springseach,	.25

Gold Plates, Gold Solders. Gold Clasp, and Crown Metal in lots of 5 ounces at one time, \$1.00 per ounce less than prices quoted.

Woodworth's Crown Drivers and Puller.

Patterns furnished by J. E. Woodworth, D.D.S.



No. I is used, as its form will suggest, for removing the band or crown from the tooth after it has been forced to place.

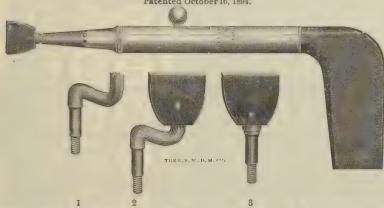
Nos. 2, 3 and 4 are used for driving or forcing bands or crowns to place on the teeth.

Nos. 2 and 3 are used exclusively for driving the band to place before the cap or cusps have been soldered to it.

No. 4 is used more particularly for driving the finished crown to place.

Hollingsworth Crown=Driver.

Made by The S. S. White Dental Mfg. Co.
Patented October 16, 1894.



The action of the appliance is that of the spring mallet. A hard rubber handle set at right angles affords a secure hold, with the trigger of the spring to the thumb or forefinger, by either of which it can be operated. The illustration of the complete device is half size, while the buffers are shown full size. Price, complete, with three Buffers, as shown.......\$6.00

Crown-Driver and Pull-Off.

Suggested by Dr. C. M. Hitchcock.

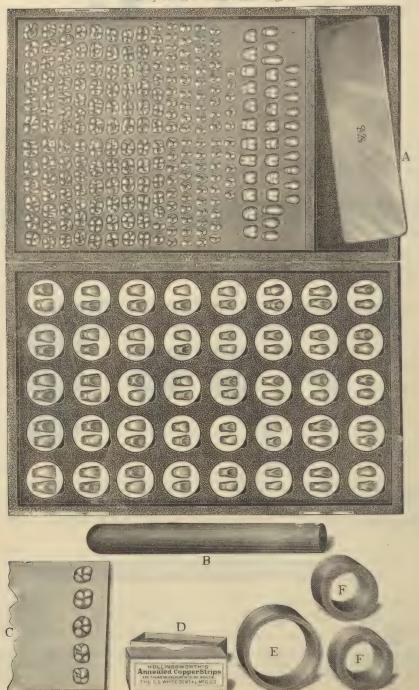
The cut represents all parts two-thirds full size.

Two sizes of sockets and buffers. Gold crowns are not marred by the soft buffers. The double bayonet form affords access to molars as well as centrals, and porcelain crowns can be set home without risk of fracture.

Price, complete......\$2.50

Appliances for Hollingsworth's Crown and Bridge Work System, Set No. 1.

Made by The S. S. White Dental Mfg, Co.



The Hollingsworth Crown and Bridge Work System.

This system comes pretty near making Crowns and making Bridge Work by machinery. The method is simple. The results accurate and artistic. Limited space prevents a full description of the system. We have a pamphlet on this subject of great value; send for it, there is no charge. It tells all about the system from start to finish. It is full of little tricks. It is just about sure to effect a sale of all or part of this outfit. Then if not handy to our depot, and the reference is satisfactory and you would like to see the set itself, say the word and we'll cheerfully send it. It generally stays. That is one reason we are so willing.

PRICES.

Set No. 1 (as shown on preceding page)\$25.000)
Set No. 2 (consisting of the Cusps, as shown in upper part of case) 18.00	,
Set No. 3 (consisting of Incisors and Cuspids ouly, as shown in lower	
part of case) 12.00	,

Hollingsworth's Contouring System.

Made by the S. S. White Dental Mfg. Co.
Patented July 24, 1894.



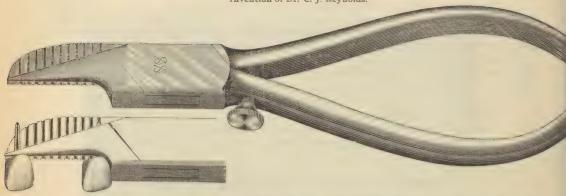


There is no plier made that can properly contour a gold crown. In the Hollingsworth System the band is fitted to the root. It is heated and burnt into wooden block. One of these 72 forms (which are copied from nature) is selected, placed in the crown, and with the small press is forced into the band. This contours it without changing shape of the fitted neck. That is all there is to it. The method can be utilized in almost any system of gold crown construction.

The set consists of 72 Contouring Forms in Folding Case, I pair Pliers, I Screw-Press, 5 Hard-wood Blocks.

Post Barbing Pliers.

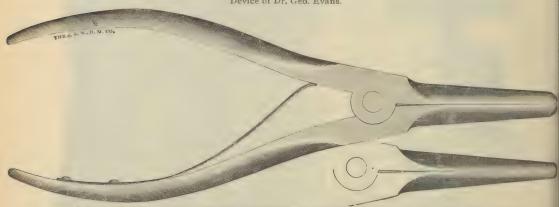
Made by The S. S. White Dental Mfg. Co. Invention of Dr. C. J. Reynolds.



The side cut shows a Logan Crown-Post as first held corner upwards in a groove near the pivot, and barbed near the post-end by compressing the pliers handles; then the post is placed in the next groove, barbed, and so on successively to the end groove, the regular graduation of the barbs being effected by keeping the crown in contact with the edge of the grooved blade. Each of the four corners of the post may thus be finely and evenly barbed to insure a firm anchorage of the post in the root. Every form of crown-post may be barbed in this manner. The set-screw is adjustable, to limit the depths of the barbs.

Crown Expanders.

Device of Dr. Geo. Evans.



A handy instrument for enlarging gold crowns or collars. By proper manipulation, these Expanders can be used to enlarge any portion in any particular direction, or the entire crown. Two sizes of beaks. Price, either size, nickel-plated......\$1.00

Tooth Holder.



This instrument saves the fingers. It holds either straight or cross pin teeth. Holds them tight. Holds them so you can see your work as you grind it. Price, each.....10 cents.



Forceps.

For Removing Band and Crown from Root or Tooth.

Made by J. W. Ivory.

The wide beak of the Forceps engages with the band at the free margins of the gum, while the curved pointed end takes a leverage from the cusp, either by drilling a small hole through the grinding surface when a crown is being removed, or takes a bearing on the face of the root if a band is to be removed—sometimes a bearing on an adjacent tooth, and always with the attainment of the end desired, viz., the removal of the crown or band.

PRICE.

Nickel-plated\$1.50

Cap Crown Slitter.

Made by The S. S. White Dental Mfg. Co.

Invention of Dr. J. B. Monfort.

The sharp-pointed knife-blade beak is placed under the cervical edge, and the elongated beak on the cuspid end of the crown, which is then easily slit lengthwise by simply compres ing the forceps handles. The hitherto difficult task of removing a cap crown or bridge anchorage may now be neatly and quickly done in a way that ad-

mits of subsequent replacement after bringing together and soldering the edges of the slit crown.

PRICE.

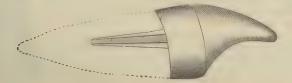
Cap Crown Slitter, each..... \$2.50

Fusible Dies for Holding Bands.

Devised by Dr. E. I. Townsend.

A simple and effective device for binding Logan Crowns at the chair. Full directions with each Die.

Price, each...... 75 cents.







Collar and Crown Scissors.

Made by The S. S. White Dental Mfg. Co.

Here is a good thing. These Scissors will cut and scallop the edges of gold collars better than any other tool. They are small, light, and the delicacy and ease of their working will be the delight of the careful operator.

Price, per pair.....\$1.50

Bench Tools.

Plate Shears for Crown and Bridge Workers.

The blades are made short and strong, with small, neat points, and the handles light and relatively long so as to afford ample leverage. Cuts are full size. Made of solid steel, either straight or curved.

PRICES.

Straightp	er pair,	\$0.60
Curved	er.	.85
Straight, nickel-plated	6.6	.85
Curved, " "	6.6	I.IO
Small (not shown), especially		
for C. and B. Work	6.6	.40

Anvils.

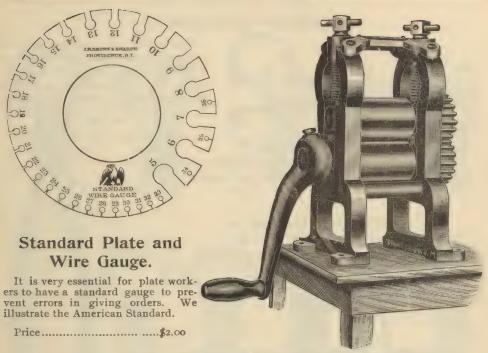
Auvils,	without baseeac	a, \$.75
6.6	with lead " "	1.50
	crown and bridge work, with base, "	1.00
66	" without " "	.40

Swaging Anvil for Dental Laboratories.

The casing is made of heavy galvanized iron and reinforced on the top by a wrought iron ring. It is filled to the top with clean lake sand to take the force of the blow, the Anvil resting on the sand and not on the casing.

The Anvil is cast iron, 6¾ inches diameter, turned and polished, and weighs 22 lbs. Total height, 28 inches; total weight, 100 lbs.





The Marshall Rolling Mill.

These Mills are well made in every particular, and fully warranted. The rolls are large-2 x 234 inches—evenly tempered and perfectly ground. The gears are machine cut and accurate. Has springs between rolls, opening them as the pressure is removed. Rolls can be removed without taking frame apart. Frame is heavy and solidly built, and is neatly In fact, we have endeavored to make a mill that would meet every requirement of japanned. crown and bridge makers. Price



H. D. Justi & Son.

Prepared by F. H. Stafford, D.D.S.

This metal is known and recognized by many of the leading practitioners as the best preparation on the market.

For convenience it is put up in bar form, consisting of four ingots; this we consider as economical, for one ingot may be used with the same facility as the entire bar.

This preparation will not break with all pounding necessary for swedging—a fault very

common in metals heretofore used for this purpose.

Complete outfit consists of one brass ladle with wooden handle, one rubber ring, two bars or eight ingots of fusible metal and one tube specially prepared copper wires for measuring roots and teeth to be crowned.

PRICE OF COMPLETE OUTFIT, \$1.50.

Fusible Metal, per bar of 4 ingots, guaranteed weight (3 oz)40c.
Brass Ladle, with wooden handle, total length over all 8½ inches5oc.
Tube of specially prepared fine copper wires (entirely new idea)25c.
Flexible Rubber Ring, extra good quality 5c.

Improved Plate Snips.



These Snips are made especially for us, from our own design, and differ from those usually sold, in the form of the blades, which are so constructed that the metal does not push forward when being cut.

PRICE.

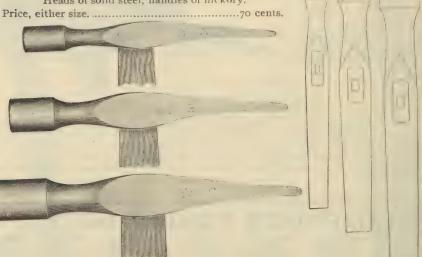
Improved Plate Snips, No. 50, \$1.00

Ordinary Plate Shears.

screw

Riveting Hammers.

Made by The S. S. White Dental Mfg. Co. Heads of solid steel, handles of hickory.



New Aluminum Punch.

Made by H. D. Justi & Son.

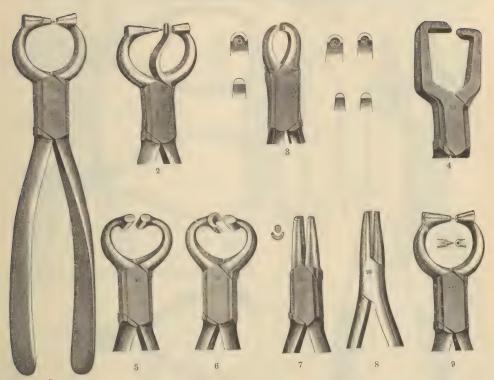


The cut shows exactly how the loops are formed. The size of loop may be regulated by thumbscrew.

Price......\$2,50



Mechanical Forceps.



	PRICES.				Plain. Cheaper Quality.
No	I. Regular	per	pair,	\$2.25	\$2.00
46	2. Plain handle			3.50	3.50
6.6	2. Checkered handle		6.6	3.75	
6.6	3. Either size		4.6	2.75	2.00
6.6	3. Extract Size		6.6	2.75	2.25
6.6	4		6.6	2.75	2.00
4.6	5		6.6	2.75	2,00
	0.		6,6	2.50	2.00
6.6	7		6.6	2.25	2.00
6.6	8		46	2.75	2.00
6.6	Q			2.75	

Snow's Adapter.

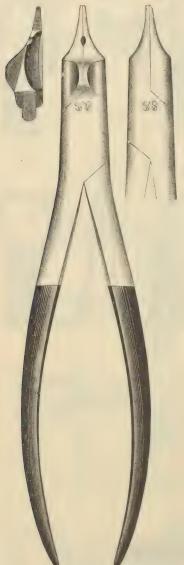


The want of some means for connecting small rubber tubing to gas fixtures has been long felt. This little device is intended to be screwed on in place of the burner, its small end serving for the attachment of the small tubing used for the ordinary laboratory gas burners; larger sizes of tubing can be forced onto the larger part of the Adapter, which thus accommodates several sizes of rubber tubing with equal facility.

Price, Snow's Adapter.....10 cents.

Pin Roughening, Cutting and Bending Forceps.

Made by The S. S. White Dental Mfg. Co.



This appliance has several important uses which entitles it to a place among recognized mechanical forceps. It may be employed as a wire cutter for bending clasps or for roughening the posts of crowns so that the cement with which they are set shall take a firmer hold upon them. Its value to crown and bridge workers is at once apparent.

Price, per pair.....\$2.50

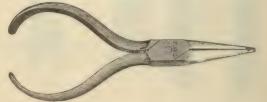
Cutting Nippers and Pliers.





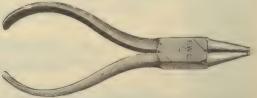
No. 2. Side Cutting Nippers; 4 and 4½ inch.
Each......70c.

Flat and Round-Nosed Pliers.



No. 3. Half-Round Pliers, 41/2 inch, 45c.

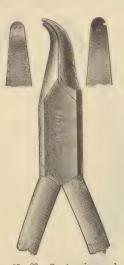


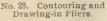


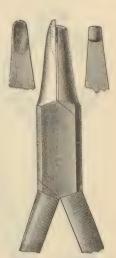
No. 6. Side Cutting Pliers, with raised cutters; 4 and 41/4 inch.

Pliers for Crown and Bridge Work.

Patterns Nos. 21-22 furnished by Dr. M. Rynear; No. 23 by Dr. C. J. Reynolds.







No. 22. Knuckling and Expanding Pliers.

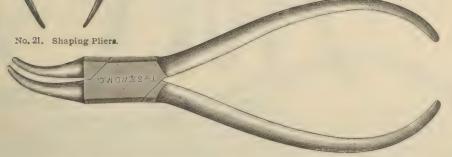
No. 21. The beaks of these Pliers do not touch and are free from serrations, thus preventing any defacing of the gold.

No. 22. To Knuckle—Place the knobbed beak well within the crown, at any point desired, and firmly compress the Pliers. To Expand—Place the knobbed beak within the crown, at the free edge, and compress the Pliers.

No. 23. To Contour—Place the short beak well within the crown and compress the Pliers. To draw in—Place the short beak within the crown, at its open end, and by sudden compression of the Pliers gradually draw in the free edge.

Curved Contouring Pliers.

Made by The S. S. White Dental Mfg. Co.
TWO SIZES.



With them the correct anatomical curves can be given to bands for collar crowns. Two sizes are made, respectively 4½ and 5 inches long. The heavier pair can also be used to adapt clasps to the curving surfaces of the teeth.

41/2-	inch	\$0.90
5	66	I.00



Cusp Pliers, No. 26.

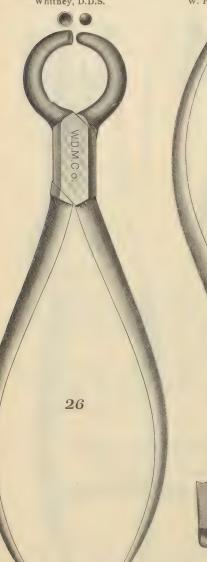
Suggested by Cephas Whitney, D.D.S.

Crown Pliers, No. 27.

Pattern Furnished by W. P. Dickinson, D.D.S.

Esterley's Pliers, No. 25.

Patterns Furnished by C. E. Esterly, D.D.S.



Every worker of gold crowns will find this instrument a necessity for the raising or depressing of a cusp, or the proper adjusting of occlusal surfaces.

Price, nickel-plated, \$1.50

No. 27. The beaks, it will be noticed, are quite different from our No. 22, allowing of a better rounding out and contouring of bicuspid and molar shell crowns, especially those having a seam; the Pliers can be used at or

above the seam. Made of best steel, nickel-plated. Price......\$1.50

These Pliers are strongly made and handsomely finished.

Designed principally for applying the measuring bands, yet their shape will be found very useful in other directions.

No. 25.

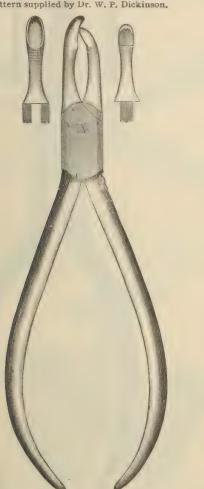
Price \$1.50

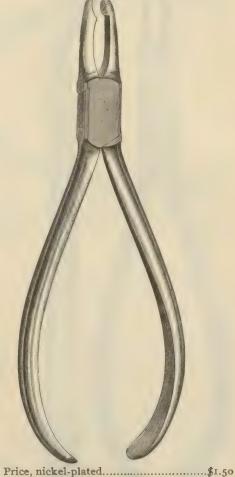
Pliers.

Made by the S. S. White Dental Mfg. Co.

Contouring Pliers.
Pattern supplied by Dr. W. P. Dickinson.

Contouring Pliers.
Devised by Dr. H. H. Johnson.



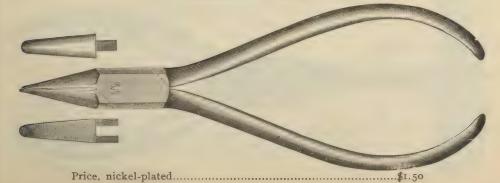


Price, per pair.....

...\$1.50

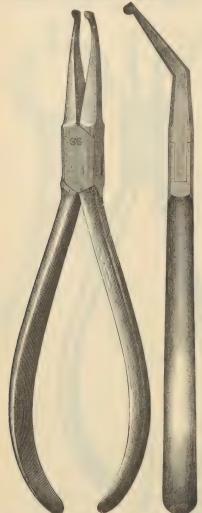
Collar Pliers.

Devised by Dr. C. L. Robinson.



How's Crown Pliers. No. 10. No. 11.

Made by The S. S. White Dental Mfg. Co.



No. 10. Nickel-plated, straight, \$1.50

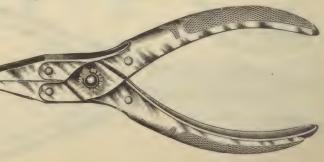
Contouring Pliers.
Dr. L. M. Mathews.

Parallel Pliers.

The jaws are exactly parallel at any open.

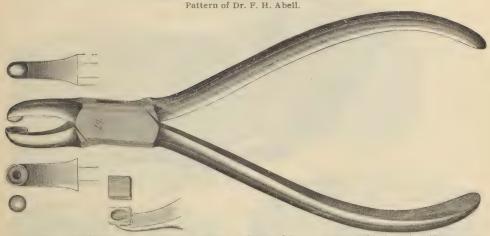
PRICE.

4½ inch., per pair, 80c. 5 " 90c.



Contouring Pliers.

Made by The S. S. White Dental Mfg. Co.



A No. 5 lead shot is placed in the beaks and forced into space provided for it. The crown or band is worked upon the lead which does not mar the metal. A package of shot accompanies each pair of Pliers. Finely finished, and nickeled all over.

Price, nickel-plated, per pair\$2.00



Revolving Combination Anvil and Bench Block.

Devised by G. W. Melotte, M.D.S. Patented September 18, 1892.

This combination tool consists of a hub carrying a case-hardened steel anvil, a par-vulcanized rubber block for filing, and a wood block for the same purpose, mounted on a bracket to be fastened to the work-bench of the laboratory. It is adjusted by pulling out the hub slightly, revolving it until the proper appliance is in position, then releasing, when it is held firmly as placed by a friction-clutch. The bracket also affords a hammering surface.

Price, complete; \$3.00. Duplicate Parts, each—Brackets, 50c.; Anvils, \$1.00; Rubber Blocks, 35c.; Wood Blocks, 15c.

Horn Mallets.

We carry in stock Horn Mallets for swedging. They are good solid horn, highly polished, strongly mounted on wood handles. Price, each, 3oc.

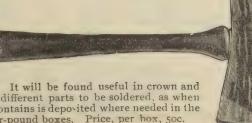
Hard Wax Flux for Soldering.

Prepared from formula of Dr. H. A. Parr.

A wax preparation which is tough and adhesive when heated and exceedingly rigid when cold, and which

possesses also the properties of a flux. It will be found useful in crown and bridge work for temporarily cementing different parts to be soldered, as when the wax is melted out the flux which it contains is deposited where needed in the soldering operations. Put up in quarter-pound boxes. Price, per box, 50c.

Price, per large box.....\$1.00



Bench Block.

Patented Sept. 24, 1889, by Dr. E. R. Magnus. Made by The S. S. White Dental Mfg. Co.



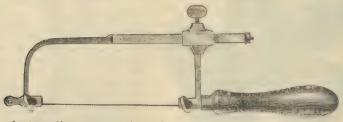
The block of rubber prevents the plate from slipping and has a desirable cushion effect. Easy to file against.
Two sizes. Large and small.

		FRICES.	
Either	size	each,	\$1.25
Rubber	blocks,	separately	.35

Dead Blow Swaging Mallet.

This is made from a composition of inelastic metal, and, as its name indicates, gives a perfectly dead blow. It is very heavy in proportion to its size, weighing about 134 lbs. and measuring 3½ inches in length and 134 inches in diameter.

Mechanical Saw Frame.



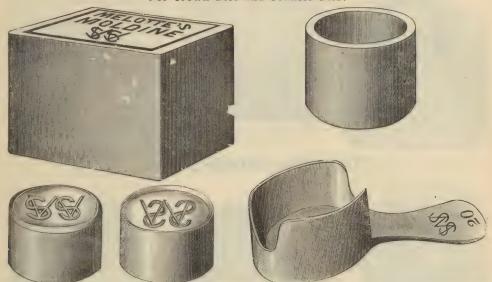
No. I, best quali	ty, Rosewood handle
No. 2, fair qualit	v. plain handle
Saws, best qualit	y, per dozen

Plate Files.

		3 in.	31/3 in.	4 in.	4½ in.	5 in.	6 in.
Half-Round	. Bastard, per doz.	\$1.95	\$2.15	\$2.50	\$3.35	\$3.55	\$4.30
	each	.19	.21	.25	.33	. 35	.43
"	Smooth, per doz,	2.15	2.40	2.70	3.65	3.90	4.70
	" each,	.21	.24	.27	. 36	-39	.47
Round.	Bastard, per doz.	1.75	1.85	1.95	2.80	2.95	3.35
6.6	each,	. 17	.18	.19	.28	.29	.33
4.4	Smooth, per doz.	2.15	2.30	2.50	3.35	3.55	4.30
6.6	" each,	.21	.23	. 25	-33	.35	.43
Flat.	Bastard, per doz.,	1.85	1.85	1.95	2.90	2.95	3.75
4.6	each,	. 18	. 18	.19	.29	.29	-37
"	Smooth, per doz.	2.05	2,05	2.30	3.35	3.55	4.30
"	each.	.20	.20	.23	.33	.35	.43
ile-Handles	assorted sizes each	E cente		.~3	. 33	. 33	.43

Dr. Melotte's Moldine, Impression Cup, Ring and Fusible Metal.

For Crown Dies and Counter Dies.



Here is the complete outfit. No dentist who is doing crown and bridge work can afford to be without any part of it. A die and counter die may be made of one or two teeth in four minutes. Moldine is an immediate investment. Solder will not flow over the inside of a collar filled with it.

PRICES.

Complete Outfit, inclosed in a tin box containing one-half pound Mold-	
ine, one Cup, one Ring, and two ingots of Fusible Metal	
Melotte's Moldine, per half-pound	.50
Impression Cup (S. S. W., No. 20)each,	
Rubber Ring	.05
Fusible Metal, per ingot, (about 2½ ounces)	.38
Postage on complete outfit,20c. On Moldine alone,	.IOC.

Die and Counter-Die Metals.

Babbitt-Metal (Haskell's formula)per pound	\$0.50
Counter-Die Metal	.25
Crown Hub Metal	-35
Zinc	. 14
Tin	.45
Lead	.12

Prepared Borax Stick.

AN EXCELLENT SOLDERING FLUX.

This is a prepared flux for use in soldering gold or silver. It is used by scraping or rubbing a small quantity on a slate and mixing with water, the same as ordinary borax. This flux will not boil.



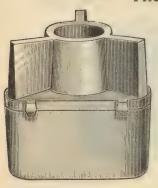
Wax Cement.

For Attaching Clasps and Teeth in Plate and Bridge Work.

This mixture is quite hard, sets quickly, and holds the teeth and clasp firmly for trial in the mouth and during subsequent investment for soldering.

Price, per box.25 cents.

The Lewis Moulding Flask.





For producing a new form of metal die. By the use of this flask, the metal in the die is concentrated above it, so that it has no outside bearing upon the counter-die. With it a thin model can be used, and all the advantages of the old-fashioned, thick, or built-up model, secured. Made in two sizes, 'large' and "small," the lower rings being respectively 25/8 x 31/4 inches, and 3x33/4 inches.

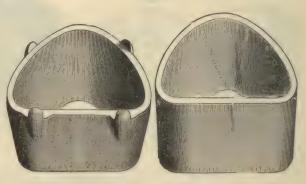
Lewis Moulding Flasks, large or small, each......60 cents.

The Bailey Moulding Flask.

For making metallic dies and counters for swaging gold plates. Prepare a thin plaster cast, trim, varnish and dry it. Place on a board, with large ring around it. Ram the ring full of moulding sand, and draw the pattern. Put on the small ring, fill with melted zinc. Shake sand out of large ring, and fill with lead. Made in two sizes, 25/8 x 31/4 inches and 3x3¾ inches.

PRICES.

Bailey Moulding Flasks, large, each......40 cents. Bailey Moulding Flasks, small, each......35 cents.



Hawe's Moulding Flasks. [Made by The S. S. White Dental Mfg. Co.

Fig. 2. Fig. 3. Fig. 1.



Fig. 1 represents the lower section of the Flask, slightly opened, to show the joints. Fig. 2 is the upper section. When ready for use the lower section is closed and confined by a pin, and the plaster model placed in it, as represented in Fig. 3.

Crucible Tongs.



Crucible Tongs. - Malleable iron, a very neat pattern.

In ordering denominate as No. X 12 or No. X 17.

Fletcher Foot Blowers.



Style No. 9, VA, or VB.

These Blowers are without doubt the very best ever constructed for laboratory and workshop purposes. They are of excellent workmanship, and constructed of the best materials obtainable. We guarantee them to be as durable as any article of the kind ever made. They are made in two styles, viz.: No. 9 and No. 10. There are also three sizes of each style. A rubber disk forms the air-reservoir and equalizes the pressure by its elasticity. By increasing the number of disks, a greater air-pressure is obtained.

It can be operated anywhere, even upon a dust heap, and a blast of pure air obtained.

No. 10 is mounted upon legs, the blower being reversed, so as to bring the air reservoir below instead of above. This obviates the risk of injury to the rubber disk or its containing net, by dropping tools or corrosive liquids upon them.

Nos. 9 or 10 are adapted for ordinary blow-pipe work.

Nos. 9a or 10a for larger blow-pipes or small melting furnaces.

Nos. 9b or 10b for largest blow-pipes and melting furnaces.

The name, Buffalo Dental Mfg. Co., Buffalo, N. Y., is stamped in the wood on each bellows made by the Buffalo Dental Manufacturing Co.



Style No. 10, 10A, or 10B.

These are the Bellows we handle exclusively. There are no other good ones made. These are the original. The best. There are imitations.

PRICES OF FOOT BLOWERS.

No.	9.	Foot	Blow	rer\$2	1.00]	Extra	Rubber	Disks.	e	aclı,	\$0.50
b 6	9A.		6 6			6.6	6.6	6.4		6.6	. 75
6.6	9B.		6.6	***************************************		6.6		6.6		6.6	T.00
6.6	10.		6.6		5.00	E &	6.6	6.6		6.6	.50
6.6	IOA	4			6.00	6.6	6.6	6.6		6.4	. 75
6.6	IOB.		6 6		3.00	6.6	6.6	6.6		6.6	T. 00
Ext	ra N	ets								6.6	. 35

The following table will give an idea of the sizes of Foot Blowers, their capacity and blast pressure:

TABLE OF SIZES AND CAPACITY OF FOOT BLOWERS.

	Size	Diameter	Pressure Cubic ft.
	of	of air	of blast of air
	boards.	reservoir.	per inch. per hour.
No. 9 or 10. Foot Blower	10 X 11	9 in.	1½lbs. 330

*

No. 5J.
Lewis
Combined
CaseHeater and
Soldering
Cup.





This simple device for drying out and soldering an investment of gold work without removing until completed, consists of an iron cup or hemisphere with suitable openings for the admission of heat from below, supported by another iron cup attached to an improved Bunsen burner, and rotating on it. The upper hemisphere may be tilted in any position desired to facilitate the flowing of the solder, bringing all parts under the action of the blow-pipe.

all parts under the action of the blow-pipe.

The cup is filled with pieces of broken pumice, upon which the case rests. To dry out a case arrange it in the cup, then light the burner and place the cover on to retain the heat. After thoroughly drying, remove the cover, tilt the cup to a convenient position and proceed to solder.

No. 14. Ladle Furnace.

With Fletcher's No. 46 Solid Flame Heating Burner, for melting lead, tin or zinc for dentists' dies. This is a better ladle furnace in every respect than any other yet made. The burner is simple, safe, and works equally well with any gas supply available, giving proportionate speed of working. It can be removed from the casing and used for other purposes if desired. The worst possible accident to the burner can be remedied in a minute at the cost of a few cents. Gas supply pipe required, ¾ inch.

PRICE.

No. 14, Ladle Furnace (Ladles extra).....\$3.50

Ladles with Detachable Handles.

For use with the No. 14 Ladle Furnace; of cast iron, in three sizes, $4\frac{1}{2}x2\frac{3}{4}$, $4\frac{3}{8}x$ $2\frac{3}{4}$, $4x2\frac{3}{6}$, inside measurement.

PRICES.

No. 141, J.adle, 4½x2¾ in., 40 cents.
'' 14M, '' 4¾x2¾ in., 35 ''
'' 14s, '' 4x2¾ in., 25 ''

" 14H, Handles, each.....25







No. 40A. Crucible Furnace. Improved Burner.



This Burner is almost noiseless in its action, and works with a very small gas supply, producing much more economical results than any gas burner heretofore used for the purpose of heating furnaces. Gas supply pipe required, 3% inch.

The amount of air and gas used by this Burner is very small. No. 9A or No. 10A foot blower is recommended for this furnace.

No. 40A takes crucible No. 00.

PRICES.

No. 40A. Crucible Furnace, Improved Burner without Foot Blower......\$3.50 Extra Burner..... 1.50

No. 40B. Furnace for Refined Petroleum.

For the	use of dentists	who are not wi	thin reach of	gas supply.	Furnishes al	ll heat
required for	melting gold.	The same bello	ws is used as f	or the No. 40.	A.	
No. 40B	, Crucible Furn	ace for Kerosene	, without blow	er	\$4	.50
Plumba	go Crucibles, No	o. oo, each				.20
No. 40B	, Petroleum Bur	ner, separately		• • • • • • • • • • • • • • • • • •		.50

No., 40c. Gasoline Generator.

No. 40c. Gasoline Generator, as used with No. 40A Furnace. Capacity of Generator, about one quart of gasoline. Size, 4x4x10 inches.

Gas Supply Taps.



We supply these, with nozzle for Indiarubber tubing 3/8 or 1/2-inch bore.

No. 114. For attaching to gas pipes by means of ordinary fittings.

No. 114. 3/8-inch clear bore.........\$0.90 No. 114. ½-inch clear bore 1.00



No. 114A.

The same size and pattern as the No. 114, but with female thread. Same prices as No. 114.



No. 115. A 3/8-inch clear way Tap, with T branch, for connection between an ordinary gas bracket and the main pipe, to take off gas for heating purposes without interfering with the use of the bracket for





No. 55c. Star Burner.

Very useful in the dental laboratory for heating water. The top of the Burner is the same as is used on the No. 53. Mounted on a low base and fitted with brass connections. For more powerful boiling Burners see our Catalogue D.

PRICE.

No. 55c Star Burner......75 cents.

Rubber Tubing-See Page 553.

The Oxy-Carbon Dental Forge.

For Gasoline.

This will be recognized as an improved form of the well-known plumbers' furnace.

It gives a strong, steady and continuous heat, the flame being smokeless and nearly odorless, and is capable of operating continuously for a day, if required, without any attention save an occasional compression of the rubber bulb. If put to continuous use for a day, it will consume about half a gallon of 74-degree gasoline, costing about eight cents.

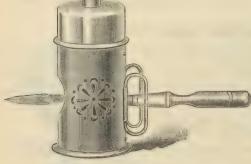
PRICE.

Oxy-Carbon Dental Forge\$10.00



Hymes' Improved Self-Acting Alcohol Blow-Pipe.

Hymes' Blow-Pipe, for soldering or brazing small work...... \$2.50



Fletcher's Solid Flame Burners.

The flames are practically solid when in use. Maximum gas consumption of No. 1R, 12 ft. per hour; No. 2R, 18 ft. per hour. The No. 2R is for vessels and pans from 10 to 18 inches in diameter.



Patented Jan. 1, 1884.

No.	IR. Burn	er Ring	3¾ inches diameter.	********				\$1.50
No.	2R. Burr	ier Ring	5 inches diameter					2.00
For	Gasoline	Gas with	Cap-nut Regulator,	No. IR	\$1.70;	No.	2R	2.30
For	Gasoline	Gas with	Wheel Valve,	No. IR	2.25:	No.	2R	2.95

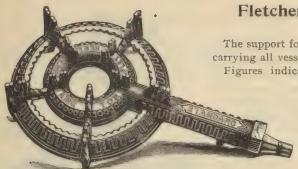


No. 46B.

The flame is solid and the same temperature throughout; The Burner gives a flame perfectly free from smell.

This Burner will, with equal ease, boil an egg in a small tin sauce pan, or melt half a hundred weight of lead in an iron pot. It will boil half a gallon of water in a flat copper kettle in five minutes, and will melt six pounds of lead or solder in an iron ladle in seven minutes.

No. 46B.	Solid Fl	ame B	Burner,	capacity,	35 fe	et per	
hour						1	2.00
For Gasoli	ine Gas,	with	Cap-nu	t Regulat	or		2.30
For Gasoli	ne Gas,	with '	Wheel	Valve			2.95
Extra Gau	ze Tops.	each.					. 25



Fletcher's Standard Boiling Burners.

The support for vessels is broad, strong and steady, carrying all vessels, from the smallest to the largest. Figures indicate the number of quarts of water

boiled in one hour in a light broadbottomed copper vessel.

No.		PRICE	ES.		
310.	10 ft.	per hou	r, 5½	in.	\$1.00
		6.6	7	6.6	1.25
	20 ''	6.6	8	6.6	1.75
330.	30 ''		IO	6.6	5.00

No. 3R. Radial Burner.

Patented Jan. 1, 1884.

This is one casting, practically indestructible, and will boil water in a light kettle at the rate of 2 quarts in 12 minutes.



No. 47. Fletcher's Solid Flame Boiling Burner.

For large pans and quick heating. It will boil quickly four or five gallons of water.

PRICES.	
No. 47. Large size, capacity, 35 fe	et
per hour	\$2.00
For Gasoline Gas, with Wheel Valve	2.95
For Gasoline Gas, with Cap-nut Re	gu-
lator	2.30
Extra perforated copper caps	25

DDIOTO

No. 47A. Solid Flame Boiling Burner.

A small size of No. 47.

PRICES.

No. 47A. Capacity, 12 feet per hour.....\$1.00 For Gasoline Gas, with Cap-nut Regulator, \$1.20

No. 247. Fletcher's Instantaneous Water Heater.

An attachment to Fletcher's Patent Burner No. 47. Total height, 9 inches.

This gives, when connected with a cistern or a water tap, hot water in three seconds after the gas is lighted, either boiling, hot, warm or cold, the water being pure and fit for cooking purposes. It will deliver sufficient hot water for washing hands in one minute.

Fletcher's Argand Bunsens.

A cheap, simple, indestructible burner for general work. The flame of these burners is shorter, more compact and higher in temperature than that of an ordinary Bunsen, and is also free from smell. The sizes given are the bore of the horizontal tube.

Two sizes of spider rings are made. The large size, for articles two inches diameter or

over, fits the ¼ size only. The small one fits either the ½ or ¾ size and holds very small articles.

No.	200,	3/8-in.	size,	gas co	onsumption					Withor	ut Tripo	d \$.50
6.6	200,	½-in.		"		31	2	- 64		6.6	î.	75
6.6	200,	3/4 - in.	- 4	6.6	6.6	7	6.6	6.6	6.6	6.6		I.00
6.6	201.	3/8-in.	6.6	6.6	6.6	2		6.6	4.4	With		
6.6	201	1/ 12	6.6	6.6		3 1	6 11	6.6	6.6	6.6	6 6	95
	201,	3/4 - in.	6.6	6.6		7		6.6	6.6	6.6		I.25
Sma	ill Sp	ider R	ing (for No	o. 201, ½-i1	1. 0	r 3/4 -	in.)				

No. 8D. Melting Arrangement.

For melting up to two ounces of gold or silver rapidly, without the use of a furnace. For coal gas only. In this arrangement the two parts of the ingot mould slide on each other, to enable ingots of any width to be cast, and the blow-pipe is part of the rocking stand. When the metal is melted in the carbon crucible, tilt the whole apparatus over so as to fill the ingot mould. A sound ingot can be obtained in about two minutes.

PRICES.

No. 8D. Melting Arrangement	3.00
Ingot Mould, if ordered separately	1.25
Extra Carbon Crucibles, without slides, for No.	
8p, per doz	1,00
Extra Carbon Crucibles, with slides, for No. 8D,	
per doz	1.75



No. 1. Ingot Mould.

This Mould is made of iron, with faces planed true, and will cast an ingot $2\frac{2}{5} \times 2\frac{5}{5}$ by $\frac{1}{15}$ inch thick and is adjustable to any less width. It is well made, and ought to last a lifetime.



No. 4A. Improved Herapath Blow-Pipe.

Double-jointed, and can be adjusted to deliver its flame in any desired direction. The flame is readily controlled. No. 4 is made in the same manner as No. 4A, but with a lower joint, making it easier of adjustment and of wider range.

Either of these Blow-Pipes can be used in connection with the No. 9 Foot Blower, or with a blast from the mouth. In the latter case, a mouth-piece is required.

PRICES.

No. 4A. Improved Herapath Blow-Pipe	3.00
No. 4.	3-75
Metal Mouth-Piece, with shield to sustain the lips	.60

Nos. 5A and 5B. Laboratory Gas Burner.





For Dentists, Druggists and Jewelers. This Burner is an admirable substitute for the alcohol lamp. It will be found very convenient for general heating purposes. Total height, 2½ inches.

PRICES.

No.	5A.	Laboratory	Gas	Burner		50 cents.
No.	5B.	6.6	6.6	6.6	with spider	75 - '

No. 8A. Blow-Pipe.

This is designed especially for use with No. 8 Melting Arrangement, but is also a particularly useful Blow-Pipe for general use in the workshop.

Price, No. 8A. Blow-Pipe on base......\$2.25



No. 6A. The Automaton Blow-Pipe.



The No. 6A is mounted on a stand, with a universal ball joint, so as to enable it to be used at any angle, or in any position. It is simple, self-adjusting for both gas and air, requiring only a slight motion of a small lever to obtain instantly any flame, from the smallest to the largest.

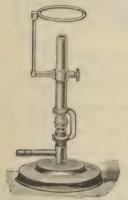
PRICES.

No. 6A. Automaton Blow-Pipe, on stand...........\$4.00 Extra Jet Tips, any size to 1/8-inch bore..............................10

No. 60. Automaton Hand Blow=Pipe on Standard.

The engraving shows the No. 6B Hand Automaton Blow-Pipe mounted on stand. The Blow-Pipe is easily detached and capable of use in the hand.

Price, No. 6D. Automaton 6B on standard.....\$4.00



No. 5K.

No. 5^a. Adjustable Bunsen.

For burning gas of variable quality. In this Burner the size of the orifice through which the gas escapes is adjusted by turning the milled cap-nut seen inside the arm which supports the upright tube. The air supply is adjusted by screwing the arm up or down. Its adjustability renders it a favorite Burner for those using gasoline gas, or the mixture of gasoline vapor and air made by gas machines. Total height, 6½ inches.

No. 21/2 Bunsen Burner.

This Burner is constructed wholly of brass, nicely adjusted and polished. The flame is as near perfect as can be, and for general laboratory use this Burner is preferred to any of the cheap Bunsens.

Price, No. 2½. Brass Bunsen.....\$1.25





No. 6F. Automaton Blow-Pipe.



The supply of gas and air is controlled by a longitudinal movement of the tube, instead of a rotative one. A spring opposes the movement of the hand, and a slight variation of pressure upon the end-piece is sufficient to give either a pointed jet or a full-sized brush flame at pleasure. An improved tip is used on the air jet, and the small blue-pointed

reducing flame is very easily and perfectly produced. It can be hung up by the ring shown on its body. The "regulating nut," shown in the illustration under the forefinger, is for the purpose of allowing the blow-pipe to be set to give a blue-pointed flame; a brush flame can then be used, and instantaneously changed to a pointed flame at pleasure, and without special effort of the hand to keep the proper adjustment. With the Fletcher No. 9 or No. 10 Foot Blower this blow-pipe is believed to form the most convenient apparatuus for soldering dental plates which has yet been produced.

No. 6r. Automaton Blow-pipe, including one reducer	3.50
No. 9. Fletcher Foot Blower	00
No. 10. Fletcher Foot Blower	
Rubber Tubing, for connection, per foot	.12

Nos. 42 and 42A. Fletcher's Blow-Pipe.

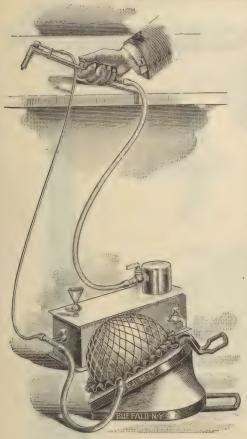
Designed from practical experience as to the requirements of users. The mouth-piece is, of all, the easiest to use and the heaviest continued blowing causes no strain on the lips, whilst the tongue has the necessary control over the opening. The chamber on the stem stops all condensed moisture, and prevents the heat traveling up the shaft.



Two hubs on the moisture chamber, placed at right angles to each other, by which means the Blow-Pipe can be used in the original parallel form, or the jet can be changed so as to be at right angles to the stem if desired.



No. 60 Blow-Pipe and No. 40c Generator.

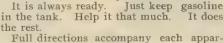


This outfit is designed for dentists practicing in the country or in city office buildings where gas is not to be had. It takes the place of gas. Takes its place so well that it is often used even where gas may be had. Its flame is clear and clean—claimed by some to be more so than gas.

It is easily operated. There is no odor. There is not much noise. It is guaranteed to work—not only work, but work satisfactorily in any persons hands. It is simple. There is nothing to get out of order.

It is made so well that it can hardly be worn out

in a lifetime. There's lots of satisfaction in selling
it. We never have any trouble with it.



Mouth Blow-Pipes.



Brass, with Bulb.	Ordinary-Plain Brass.
9-inch \$0.24	9 inch \$0.12
10 inch 26	10 inch
11 inch	11 inch
12 inch 30	12 inch
23 inch32	13 inch

Asbestos Pads.

For protecting the table during the blow-pipe operations. These are made from asbestos board, about one-fourth of an inch thick, and edged with iron. They are incombustible and excellent non-conductors of heat.

No.	OOAP.	4	in.	X	4	in.	X	1/4	in	0.10
No.	OAP.	8	in.	X	8	in.	X	1/4	in	.40
No.	IAP.	61/2	in.	X	IO	in.	x	1/4	in	.50
No.	2AP.	10	in.	x	13	in.	x	1/4	in	.85
No.	3AP.	13	in.	x	20	in.	\mathbf{x}	1/4	in	1.50

Asbestos Mats.

Made by The S. S. White Dental Mfg. Co. Round—in two sizes, ¼ inch thick

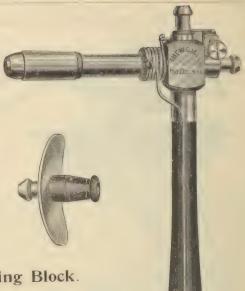
	Round In two Sizes, 4 men thick.	
Tormo nino o imph	diameter	Acres 10
Large size, 9 mich	diameter	JIO, 5
Small " 41/2"	4.4	
Small 4%		08
7/2	***************************************	

Dr. L. M. Mathews "Little Giant" Blow-Pipe.

Patented December 9, 1890.

The flame is regulated by pressure upon the latch shown on wood handle. The handle will never get hot. This is the most comfortable burner in use. The flame is under perfect control. It may be set at any point. Sufficient tubing to connect mouthpiece with blow-pipe is included in the price.

Price, each.....\$4.50



No. 120. Carbon Soldering Block.



For supporting work under the blowpipe. Cleauly, and perfect non-conductors. They are circular, depressed on each face, and four inches diameter.

PRICE.

No. 120. Carbon Soldering Block, 25c.

No. 120A. Carbon Block Holder.



Nos. 122 and 122A. Asbestos Soldering Block.



These Blocks have found favor with many in preference to Carbon Blocks for soldering purposes. A holder is supplied with a flange to prevent block from falling through.

PRICES.

No. 122 Asbestos Block......6oc.
No. 122A Asbestos Block Holder.....25c.

The Dempsey Combination Blow Pipe.

Manufactured by Rochester Dental Mfg. Co.



Patented September, 1896.

This blow pipe is most convenient and effective for Dental Crown and Bridge work, saving time, annoyance and expense. Its capacity is such as to melt gold, copper and fuse steel, or can be adjusted down to a needle point for soldering the most delicate work. It can be used in any place and under all conditions with perfect success, as the flame can not only be turned to any given point or direction, but the whole blow pipe can be carried to any place or position, frequently made necessary in heating up the underside of a case before soldering. When desired the blow pipe can be set on a bench with the flame adjusted to cover the work so that both hands are at liberty, by the use of the foot blower. The blow pipe can also be used to very good advantage for light work with the rubber hand bulb, but we do not recommend it for use where there is any amount of metal to be melted. We have, however, melted a copper cent in about one minute, but it is tiresome work if continued any length of time, while with the foot blower it is worked with ease and comfort.

The Dempsey Combination Adjustable Blow Pipe.

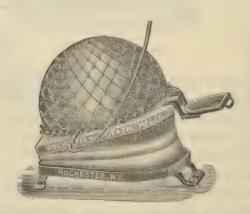


There are two chambers, one for holding the alcohol and one for gasolene. Three different size tubes are furnished with each blow pipe to accommodate the class of work required. It takes the place of gas admirably and many consider it much superior in very many cases, having the advantage of being movable to any point. It is very easily understood and operated and nothing to get out of order. Unlike most blow pipes which burn every thing they come in contact with if laid down while working, this has a base that can be set on bench and left burning. No odor or roaring noise.

PRICES.

Blow	Pipe	with Hand	Blower \$5.00
6 6	6.6	without "	\$4.75

Foot Bellows for Dempsey Blow Pipe.



Made very substantial and durable and adapted to any style blow pipe, but we find in working the Dempsey Blow Pipe that many of the heavy foot blowers supply too much air and are not at all adapted to this class of work, especially when soldering up a crown or in delicate bridge work. Directions in full with each blow pipe.

PRICES.

Foot	Blower,	sepa	rate					 \$	5.00
6.6		and	Blow	Pipe	with	rubber	tubing	 \$1	0.00

Asbestos Soldering Block.

No. 3.

This form of Block is made specially to meet the necessities of the crown and bridge worker and takes the place of the Carbon Block. It is strong and durable. Illustration is full size. There is a depression in either end.

Price.....25 cents.



Carbon Cylinder.

No. 121.

Made of the same composition as the Carbon Blocks. More cleanly than charcoal; the cupped ends being admirably adapted for soldering small articles, such as gold crowns, or for blow-pipe assays. Size, 1½ x 3 inches.

PRICE.

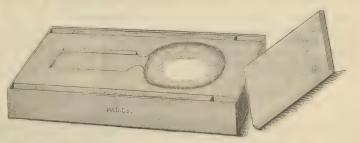
No. 121. Carbon Cylinder......15 cents.

Asbestos Soldering Block.

No. I.

No. I. Asbestos Soldering; Melting and Ingot Block, 6 inches long, 2% inches wide, ½ inch thick. Each Block is put up in a tin box with directions for use.

Price, each 45 cents.



The Handy Soldering Tray and Investing Material.

This appliance consists of a circular asbestos Soldering Block or Tray, with raised rim, set in a brass box mounted on a wood handle. Four holes are drilled through the bottom of the asbestos for the reception of brass pins to hold the work in place. The base of the wood handle is flat, so that the appliance can be held in the hand or set upon the work bench. With the Tray and included in the price, we suppply a box of investing material made of a prepared asbestos fiber, which has the advantage over plaster of paris, that the flame can be thrown upon it at once upon the completion of the investment without risk of cracking it, saving the time necessary to dry out plaster. This investing material is simply dampened—so much of it as is to be used—until the fibers cohere, forming a plastic lump, to which the work is pressed.

PRICE.

Handy Soldering Tray, including box of Investing Material60 cents.

Borax Slate.

Dr. Evans, in his "Artificial Crown and Bridge Work," says that the most suitable flux for delicate soldering operations is borax ground with water to a cream-like consistence. The appliance which is here offered as a substitute for the slates ordinarily used is handy and cleanly for the purpose. It consists of a shallow, saucer-shaped glass dish with a ground surface let into a wood block, which has a metal cover.

Alcohol Soldering Lamps.



In both the Lamps the alcohol is conveved through a tube to the burner, which is sufficiently distant from the body of alcohol to insure safety when in use.

The "Purdy" Alcohol Lamp.

For Soldering.

This popular Lamp is in the shape of a glass globe 3½ inches in diameter, set in a nickel-plated metallic base, which allows the Lamp to be placed at any angle for convenience. The burner carries a half-inch wick and is constructed so that the flame can be controlled at any desired height. Price.....\$1.50

Binding Wire.

BEST QUALITY.

Very strong and ductile, put up on large and small spools.

PRICES.	
Small spool	o. to
Large spool	.25
S. S. White's make, high grade, per spool, in box	.20

Pin Vise for Holding Fine Wire.

Work held in this device is always centered and balanced. No thumb nut is in the way. Is not likely to get out of order as it is very finely adjusted.

PRICE.

Hand Vises.

PRICE.

Copper Pliers.

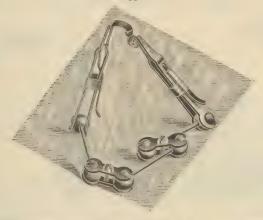
Most convenient for handling work in pickel. Length, 91/2 inches. Price......\$0.90

Weston's "New" Metal.

Solder, per oz. 1.00

Dr. Elliott's Soldering Pliers.

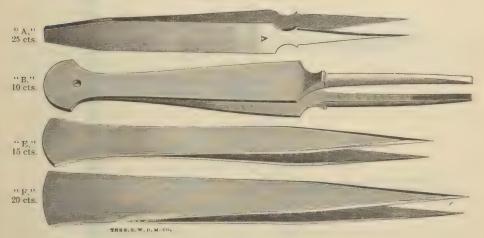
Made by J. W. Ivory.
Patent applied for.



It will be noticed that the above Pliers are a most handy appliance for Laboratory usages, as they will save investing in the many intricacies of crown and bridge work, and metal work of all kinds. Instructions are scarcely necessary. The ball and socket movements will give any essential adjustment. Those in use are giving every satisfaction.

Price\$2.50

Solder Tweezers.



Copper Pickle Pans.

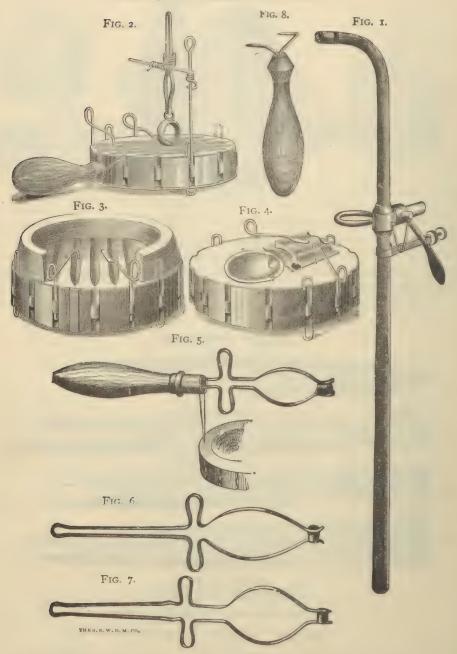
For Boiling Out Bridge or any Gold Work.

PRICES.

No. 693, 3½ inches in diameter......90 cents. No. 394, 3½ '' '''40

Soldering Appliances.

Devised by Geo. W. Melotte, M. D. S., Ithaca, N. Y.



See next page for description and prices.

Dr. Melotte's Soldering Outfit.

Dr. Melotte's set of soldering appliances now consists of the devices shown on the preceding page (about half size), and described below. The usefulness and completeness of the set will be at once apparent. Directions accompany the apparatus.

Improved Gas Blow-Pipe. Patented December 18, 1888.

The gas supply is received through the valved tube by connecting it with rubber tubing to the gas bracket. The spring valve which regulates the supply of gas may be set by means of the thumb-screw and jam-nut, to any flame desired. It can also be used with the foot bellows when a more powerful blast is required, or with nitrous oxide to produce an oxyhydrogen flame.

Price.....\$3.50



Blow-Pipe Pad.

Patented March 26, 1889.

The construction of the Pad makes it a perfect cushion, into which pins can be readily thrust to hold small articles while being soldered. One face is plane for soldering, the other has a depression for the melting cup.

Blow-Pipe Pad, complete, including removable rim, ingot-mould, one melti	ıg
cup, handle and three spring clamps.	\$2.00
The same. less ingot-mould and melting cup	I.50
Extra Melting Cups, each, 10 cents; per doz	1.00
Ingot-Mould, separately	50

Soldering Clamps.

Patented September 20, 1887.

Cleansing Paste for the Hands.

Made by The S. S. White Dental Mfg. Co.

There are very few things made that will enable a dentist to go right straight from the laboratory bench to the chair and have his hands in the condition he would like them. This Paste is one of them. It will do the business. Does not require much—just a little—just a pinch. It not only is good for an emergency, but, used all the time, keeps the hands in perfect condition. It is one of the little luxuries that becomes a necessity when once used.

Velvoleen.

For Cleaning, Softening and Beautifying the Skin.

PREPARED EXPRESSLY FOR DENTISTS.

This is a Cleaner compounded on entirely new principles; neither alkali, acid, or animal fats are used; therefore it will not injure the most delicate complexion. With constant use it will keep the skin soft and smooth, and serves also as a disinfectant for bathing purposes.

DIRECTIONS.

For removing stains from the hands, rub Velvoleen well into the hands, and wash off in warm water. Constant application will remove tan, moth, and stains caused from Oxides, Inks, ϵ tc.

Price.....25 cents.

PREPARED BY

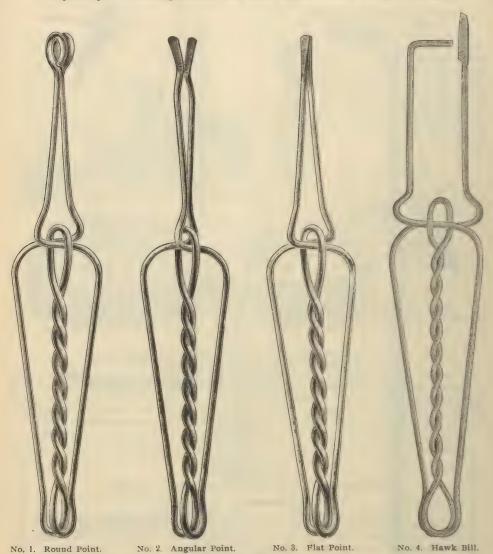
BOSTON DENTAL MFG. CO.,

174 TREMONT STREET.

BOSTON, MASS.

Soldering Tweezers.

Especially for Holding Crowns or other Light Work while Soldering.



These Tweezers are far and away ahead of the old form. It is just as easy to pick up a piece of work with these as with the common sort. Just as easy to lay it down, but these hold the work for you if you want to lay it aside; they let go when you want them to—not before. That is why every person uses them.

PRICE.

Per pair, any style......15 cents.

The Custer Electric Oven.

Pretected by Patents Nos. 541,714, 541,724, and others pending.



It needs scarcely to be mentioned that electrical heat has no more fitting place than in the fusing of porcelain for dental purposes. The source of heat being a platinum wire electrically heated, it will be readily seen that a heat is obtained that is unlike any heretofore used for the purpose, and since it gives rise to no products of combustion, it is an impossibility to produce what is known as "gassing," and porcelain fused by this method not only possesses unusual clearness, but is more dense. ease with which electrical heat can be regulated, by means of the rheostat, its cleanliness, economy and freedom from noise and odors, highly recommends it to the porcelain worker and opens new possibilities in prosthetic dentistry.

The heat required for fusing porcelain is so high that heretofore it has been more or less a matter of guesswork to all except to him who made this work a specialty, and even then the old method is so beset with exacting conditions for good results, that even the specialist opened the muffle in an anxious frame of mind.

With electrical heat we have something definite. It is not affected by bad coke, by bad oil, by gas, or unequal draught. A given number of amperes, forced through a conductor at a given pressure, produces a heat as definite and results as positive as a rule in mathematics.

The Custer Electric Oven.—Continued.

The Custer Electric Oven is designed for dental purposes, and the scheme of producing the heat and preventing its waste renders it of such efficiency that the most refractory porcelain may be fused, and that without injury to the wires or their investment.

As a new source of heat is used, a departure from the muffle shaped oven has been made to one more in keeping with this new agent.

The perfected instrument consists of a separable flask-shaped Oven, somewhat larger than a vulcanizing flask, with an inner cavity large enough to contain a set of teeth, and of such shape that all parts of the plate receive the same degree of heat. Upon the whole inner surface is imbedded the electrical conductor just deep enough to be supported while so highly heated, and yet to radiate its heat directly into the cavity.

The upper part of the flask is hinged to the lower, and a full, continuous gum case may be placed in the lower part and the teeth re-arranged while in that position, should any have become displaced. After fusing, instead of removing the case from the heat and subjecting it to a sudden change of temperature, the heat is removed from the case, which remains in the Oven till cool, thus avoiding the danger of checking or displacing the teeth.

There are two openings in the Oven, through which the fusing process may be watched. These are placed in such positions that rays of light entering one will be reflected out through the other. This overcomes the intense glare of the heat and at the same time makes it possible for an inexperienced operator to accurately determine the degree of fusion.

The experienced dentist will appreciate an appliance in which he can so closely observe and control the whole fusing process.

If by carelessness a wire is fused, the current is automatically cut off, and a repair may be made in a few moments time.

This appliance may be used with any current used for electric lighting, can be attached to the ordinary incandescent lamp socket without any change in the wiring, and costs but one cent a fuse of thirty minutes.

The success of this Oven is no longer a question. It is recognized by dental societies as a boon to the continuous gum worker, and is in use throughout the world.

The Oven is made in two styles, a large one for full cases or for porcelain crowns and bridge work, and a small one for crowns and bridge-work only.

PRICES.

Large size,	including	rheostat\$75.00
Small size,	including	rheostat 50.00

In ordering state full name of electric current to be used.

The S. S. White Dental Mfg. Co.'s Vulcanite Rubber.

Dentists who have used these Rubbers are so well aware of the high standard set and maintained that they need no additional commendation at our hands. Bow Spring Rubber is put up in thin or medium thick sheets.

PRICES.

Bow Spring Rubber.

Less than 5 poundsper	pound,	\$2.75
In 5 pound lots	16	2.50
In 10 pound lots	6.6	2,25
In 25 pound lots	44	2.00
01		-,00

S. S. White's Dental Gum No. 1, Improved.

Less than 10 poundsper	pound,	\$2.25
In 10 pound lots	4.6	2.00
In 25 pound lots	64	1.90



Trade-Mark No. 1847. Registered June 23, 1874.

The S. S. White Dental Mfg. Co.'s Pink Rubber.

In desirable qualities—color and toughness—The S. S. White Dental Mfg. Co.'s Pink Rubber is equal to the best of the higher priced brands on the market. To test the fact involves but little expense, and the experiment is worth the making to any one who uses this variety of rubber. Put up in half-pound boxes.

Per Pound	\$5.00
In 5 pound lots	4.75
In 10 pound lots	4.50

Vulcanizable "Granular Gum" Facing.

Dr. Gilbert Walker-Patented January 1, 1889.

When vulcanized, polished, and wetted (as by the saliva), it approximates the appearance of the well-known continuous gum work, and as there are several shades, the dentist can either match the natural gum or suit the color of a full denture of the complexion of the patient.

One ounce will serve for four full sets. Directions with each package.

No. I. Mottled Granular Gumper ounce,	\$1.00
No. 2. Purple Tint, Dark Granular Gum.	
No. 2A. Purple Tint, Light Granular Gum	
No. 3. Florid Tint, Dark Granular Gum.	1.15
No. 3A. Florid Tint, Light Granular Gum.	
Whalebone Rubberper pound,	2.50
Poulson's Pink Rubber	5.50

Gear's Shaded Pink Rubber.

Makes a close imitation of nature, the color grading from a light pink at the necks of teeth to the deeper color of the higher part of the gums. The Rubber comes in strips $\frac{4}{16}$, $\frac{5}{16}$, $\frac{7}{16}$ and $\frac{9}{9}$ of an inch wide—packages of assorted widths. It is all ready to use.

3-ounce	package	 *************	 \$2.75
I	66	 	 I.25

The Vulcan Gold Lining.

A Perfect Gold Covering for Rubber Plates.

The Gold is applied in one piece to the surface to be covered, and no extra care is required in packing the flask. The Lining is composed of chemically pure Gold with a thin

covering of pure Silver.

If the rubber plate is covered on both sides it is tougher when vulcanized, for the reason that during this process the pressure against the metal gives the plate a surface more dense than it will have if vulcanized in contact with plaster. The sheets are the thickness of No. 20 foil, and each book contains about forty-eight (48) square inches-more than enough to cover six ordinary size plates on one side, or four plates on both sides.

C. Ash & Sons' Dental Rubbers.

RETAIL AND QUANTITY PRICES TO DENTISTS.

	Price per lb.	5 lb. lots.	10 lb. lots.	20 lb. lots
No. 1. Improved Pink	\$7.50	\$6.75	\$6.35	\$6.00
No. I. Pink	.)			
No. IX. Pink	. } 6.00	5.40	5.00	4.70
New Pink				
English Pink		4.75	4.50	4.00
S. P				
Child's G.	> / (10)	3.60	3.20	3.20
Whalebone, No. I				
Whalebone, No. 2	.)			
Solid Base.				
Flexible Base	0.0	3.15	3.00	3.00
Dark Red				
Red	<			
Orange				
Black.				
Dark Brown	3.00	2.70	2.50	2.40
Brown.				
Improved Black	-			
English Base	2.50	2.25	2.25	2,00

Celluloid Plates.

PRICES.

UPPERS.

Nos. Price,	\$0.16	3½ .20	.18	4½ .22	5.22	5½ .25	6 .27	$6\frac{1}{2}$.29
			TTDDY		. 22			

Nos. 3 3½ 4 4½ 5 5½ 6 6½ Price, \$0.23 .24 .24 .28 .30 .30 .39 .44

LOWERS.

Nos. 1½ 2 2½ 3 3½ 4 4½ Price, \$0.12 .13 .16 .15 .21 .21 .26

PLUMPERS.

Nos. 3 4 5 6 Price, \$0.27 .36 .43 .35

PARTIALS.

Nos. 5 6 7 8 9 10 Price, \$0.08 .10 .13 .16 .14 .18

Scott's Plate Retainers.

These Retainers have been used very largely as a means of retaining the plate in the mouth by means of suction.

Per box of I dozen	, upper\$2	.00
Each	•	20

TRAUN'S IDEAL DENTAL RUBBER.

Is intended for Dentists who do particularly good work. It is intended for those who are satisfied with nothing short of the best.

799 999 999 999 999 999 999 999 999

Traun's Ideal Dental Rubber is the strongest, toughest, most elastic that money will buy. It possesses the greatest degree of strength. It is almost unbreakable when made into plates. It will undergo more rough usage without breaking than any other Rubber, no matter how high-priced or who the maker is.

It takes an unusually high polish. It has an admirable color. It packs most easily. What more does a dentist want? No amount of money will buy better rubber. If you pay less than our prices (given below), you will get less. Sold by Dental Depots, or will be sent direct from the factory if your dealer does not carry it.

	per 1b.		10 lb. lots.		50 1b. lots.
Traun's ''Ideal''	\$2.75				1.50
Traun's "Ideal Pink"	5.00	4.50	4.25		
No. 1, Light Orange	2 25	205	1.80	T 70	T 50
No. 2, Med. Orange	2.25	2.05	1.00	1.70	1.50
" 3, Dark Orange					
'' 4, Light Mottled	2.75	2.50	2.20	2.00	1.80
'' 5, Dark Mottled					
'' 6, Maroon	2 00	2 70	2.40	2 20	2 00
" 7, Nubian Black	3.00	2.70	2.40	2.20	2.00
" 8, Imperial Pink	5.50	5.00	4.50		
" 9, White	4.50	4.00	3.60		
'' 11, Maiden-Blush Pink	6.00	5.40	4.80		
"12, Herakles			3.20		
Gutta Percha for Base Plates	2.25	2.00	1.80	1.70	1.50

EXCELSIOR RUBBER WORKS,

DR. H. TRAUN, Proprietor.

Factory, College Point, N. Y.

335 Broadway, NEW YORK.

TRAUN'S IDEAL PINK DENTAL RUBBER.

Traun's Ideal Pink is the best Pink Rubber made. When we say 'best,' we mean 'best.' We have never heard of a dentist who was dissatisfied after giving it a fair trial, and we never expect to hear of one.

Traun's Ideal Pink Rubber comes nearer to Nature than any other Pink. It is almost impossible to detect it from the Natural gums. Dentists tell us

nearly every day that it is the most life-like imitation of the human gums that they know of.

More than that—it possesses a strength unknown in other makes. Manufacturing Pink Rubber is a peculiarly delicate operation, but we have reached a degree of perfection that we are justly proud of. We come as close to Nature as it seems possible for man to come.

Sample sheets mailed on receipt of 30 cts.

EXCELSIOR RUBBER WORKS,

DR. H. TRAUN, Proprietor.

Factory, College Point, N. Y.

335 Broadway, NEW YORK.

Only One Best Rubber.



No. 8788. Registered June 20, 1876.

Established 1865.

In every line of business in the world, there is only one best manufacturer. There never were two ''bests,'' and there never will be.

There is just one make of Dental Rubber that is better than all the others—that is the strongest and toughest—that never varies in quality—that takes the highest polish—that is easiest for the dentist to pack. That rubber is

Samson Rubber.

I have made Samson Rubber for over 20 years. I know exactly what it is and what it will do. I know the Para Rubber of which it is made is the most carefully selected. I know the process by which it is manufactured is used by me only, and I know that process is best.

No dentist can afford to use rubber that is a shadow short of the best. No

dentist can afford to take any chances.

Samson Rubber costs no more than ordinary grades, but is worth a great deal more. If you have used it, you know that all these words are true. If you have not used it, you are asked to try it. Never mind what other makers say. Never mind what I say. Simply try Samson Rubber and let it recommend itself.

I make every variety of Rubber that a dentist needs. No. 1 Rubber is a

light red, uniformly tough and strong, and will give perfect satisfaction.

My Pure Black, Jet Black and Para Black Rubber contain not an atom of

mercury. The quality is unmatchable anywhere.

My Weighted Rubber mixed with pure metal, for lower sets, is considered the finest in the world

On the next page is a price list of the different varieties made by me.

EUGENE DOHERTY,

Eugene Doherty's Price List.

No. 1 Rubber	per pound,	\$2.25
No. 2 Rubber	6.6	2.25
Mottled Rubber, in any shade or color	6.6	2.25
Pure Black Rubber	"	2.25
Jet Black Rubber	6.6	2.25
Para Black Rubber	6.6	2.25
Gutta Percha Base Plate, Pink or White	6.6	2.25
In 10 pound lots	6 6	2.00
In 25 pound lots	6.6	1.90
In 50 pound lots	£ £	1.75
Samson Rubber	66	2.75
Maroon Rubber	6.6	2.75
Flexible or Palate Rubber	6.6	2.75
Vulcanite Gutta Percha	6.6	2.75
In 5 pound lots	3.3	2.50
In 10 pound lots	6.6	2.25
In 25 pound lots	6 6	2.00
In 50 pound lots	6.6	1.80
Pink Rubbers		5.00
White Rubber		4.00
No. 1 Weighted Rubber	6.6	3.50
No. 2 Weighted Rubber	6.6	3.50
Black Weighted Rubber	6.6	3.50
		5.50

Doherty's Rubber Dam.

My Rubber Dam is not so well known as my Dental Rubbers. But I want to say to the profession that it is just as carefully made as my other goods. I want to assure dentists that it will last longer than any other make I know. It is tough and durable. It will give the greatest degree of satisfaction. It will please you so well that if you buy once, you will buy again and again.

The thin Rubber Dam is sold at \$1.00 per square yard. The medium at \$1.50.

All I ask for my goods is a trial. I ask for a small order at first. The big orders come by themselves after a fair trial.

My goods are handled by all the first-class Dental Depots.

EUGENE DOHERTY,

"USED THROUGHOUT THE WORLD."

Spyer's Adhesive Plate.

For Upper and Lower Dentures.

Air Chambers Not Necessary.

United States Patent No. 554,740, Feb. 18, 1896.
French Patent No. 247,754, May 28th, 1895. English Patent No. 10,288, May 24th, 1895. German Patent, 84,120.
Trade Mark Registered in United States Patent Office, No. 26,020, and Patent allowed.



Fig. 1. Showing Spyer's Adhesive Plate for Upper Dentures.



Fig. 2. Showing the Adhesive Plate for Lower Dentures.



Fig. 3. Showing Finished Denture.

It causes the denture to adhere firmly in any mouth, hard or soft, imparts a soothing sensation to the gums and mucous membrane, and prevents the irritation that arises from the hard rubber pressing upon the gums and roof of the mouth. Because of the greater firmness and adhesion of the plate in the mouth the ingress of the food between the plate and the gums is avoided, as well as any displacement of the plate in the process of mastication, which can thereby be performed with ease and comfort.

The Adhesive Plate can be vulcanized to the palatal surface of old plates, producing strong adhesion and obviating the necessity of making a new plate.

Full directions accompany each box,

Every Dentist should use them; will cure any sore mouth.

After once using the Adhesive Plates you will always want them.

\$1.00 a box, each box containing six, put up as follows: No. 1 containing 3 upper and 3 lower; No. 2, containing 6 upper; No. 3, containing 6 lower.

Can be had at all dental depots, and of the inventor and manufacturer.

JOSEPH SPYER, D.D.S., 125 West 32d St., near Broadway, NEW YORK CITY.

A FEW OF MANY UNSOLICITED TESTIMONIALS.

Dr. Joseph Spyer, 182 Broadway, New York.

Dear Doctor:-

Enclosed please find check for \$1.00, for which send me by return mail, I box of your Adhesive Plates. Have used them on mouth that would not hold an ordinary rubber plate at all. Now, with your Adhesive Plates, patient wears teeth with comfort. Yours, etc., (Signed)

O. E. Mickel, Surgeon Dentist, 14 Main St., Haverhill, Mass.

Dr. Joseph Spyer.

Dear Sir:— New York, June 6, 1896.

Enclosed find one dollar, and please send at once one box of your Adhesive Plates, No. 1. I find them very satisfactory in my practice, and I am very much pleased with them. (Signed)

Dr. C. C. Richardson,

N. W. cor. 87th St., Madison Ave., New York City.

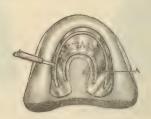
I have used your Adhesive Plates for the past six months with much satisfaction both to my patients and myself. Please send me for enclosed two dollars, two boxes, one upper and one lower, and oblige, yours truly,

H. Snyder, Middleburgh, N. Y.

An Inducement and a Great Improvement.

Spyer's Automatic Suction Cavities.





For the past two years Spyer's Automatic Suction Cavities have been on the market, and dentists all over the world are using them, with the greatest success.

The size of the Automatic Suction Cavity is now made to fit any mouth, thus obviating the only objection ever made, when first put on the market, of being too large for some cases. You can now be assured that the Automatic Suction Cavity, as now being made, will answer for any case, no matter how small the mouth. A box of Automatic Suction Cavities will be very valuable to you in all cases, and is the only device ever invented that will enable you to construct, if you so wish, a narrow or full denture with perfect adhesion the entire length of the plate.

\$1.00 per box. Each box contains 12 Automatic Suction Cavities, with full directions.

For sale at dental depots, and by

Office and Factory:

J. & L. B. SPYER, NEW YORK CITY.

Unsolicited Testimonials.

"I believe your Automatic Suction Cavities will prove a grand successs. Sometime since, I made a plate for a man whose mouth was very flat, using the ordinary air-chamber. The plate would stay up except when he ate, and then down it would come. I re-set, using one of your cavities, and perfect success is the result."—J. H. Dorival, D. D. S., Caledonia, Minn.

"I have been using your Automatic Suction Cavities ever since you put them on sale. I think they are a good thing, and I am having good success with them."—Dr. S. H. Rankin, Connellsville, Pa.

"I have just finished a plate, using your idea, and it gives complete satisfaction."—Dr. E. B. Hause, of Milton, Pa.

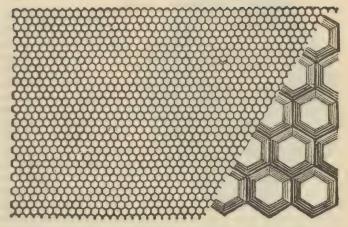
"Enclosed please find P. O. order for \$1.00 for one dozen of your Automatic Suction Cavities. The others were very satisfactory."—Dr. V. S. Vissner, of Larimore, N. D.

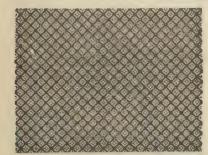
Combination Dentures.

Invented by Dr. R. Wunsche, Annaberg, Germany.

This is a perforated metal plate, by the use of which, in combination with rubber, dental plates may be made much thinner than if made of rubber only. The cut shows the full size of the plates. A part of the plate on the right shows the perforations as they appear un-der a strong magnifier.

Each box of plates will contain full directions. with illustrations of their application to whole and partial dentures.





Dr. Wunsche's Metal Adhesion Plates.

These Plates are of very strong white metal, enabling the dentist to dispense with the vacuum-chamber in upper dentures, besides adding very much to the strength of the case. Each box will contain full directions.

Price, per box of six.....25c. each 5c.

Surface-Cohesion Forms for Artificial Dentures.

Invented by Dr. Joseph Spyer. [1885]; Dec. 8, 1885. Patented Jan. 6,



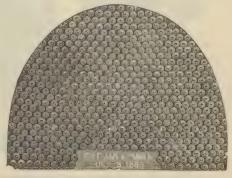


Fig. 1,

A thin metallic Form, the surface of which is covered with minute papilli-form prominences-shown in Fig. 2 magnified four diameters-effect surface cohesion as if the denture were glued to the gums, yet cause no irritation and leave no marked indentations. Strong cohesion can be had with a narrow plate, the sense of taste left unimpaired. Put up in packages containing one dozen Forms size of Fig. 1, which can be cut for either upper or lower plates. Full directions accompany each package.

Gold Lining, and for like use. Thickness of No. 120 Foil. Price, each.........\$2.50

Watt's Improved Metal.



This metal is the result of diligent research aided by abundant leisure and long experience in the science of metallurgy.

It is stronger and runs sharper than any in use, while it withstands chemical action in the mouth better than 18 carat gold.

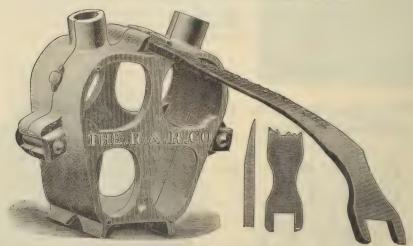
It has no equal for lower plates, gives a much better fit than rubber, celluloid or gold, and is a good conductor of heat and electricity. Weight is often advantageous, but if shrinkage is very great a base plate of the metal may be made and the teeth attached to it with rubber or celluloid. Beautiful upper or lower dentures may thus be made, and will command a much higher price than the ordinary rubber plate your neighbors make.

Full directions with each ingot. The cut shows exact size and shape of

the ingots. Any other form is an imitation. Six ingots to the pound.

Price, per ingot, \$1.00.

Watt's Improved Moulding Flask.



The Watt's Improved Moulding Flask has many advantages over the discarded style. The two parts are held together with bolts, and the handle attaches to the flask at the top, thus placing the weight below the point of contact, which enables it to be held steady while pouring the metal. The handle is also a wrench at one end, while the other end is wedge shaped to assist in separating one part of the flask from the other.

Price, complete,.....\$1.00.

If sent by mail, postage extra twenty-five cents.

Watt's Metal Denture.

The making of an artificial substitute of fusible alloy is an extremely simple, as well as useful method of constructing a denture of moderate cost, and combines usefulness, cleanliness, and all the other advantages of metal over the vegetable bases now used in the construction of artificial substitutes.

Of the various alloys in use, none are so good as the one made after the formula of the late Prof. Geo. Watt, whose extensive experience in chemistry and metallurgy, combined with abundant leisure, enabled him to place at the disposal of the profession an article which, after ten years of wear in the mouth, shows no

change, either in color or structure.



Fig.1.

The method of constructing a case is the same as for any of the fusible alloys, or as follows: After securing the impression in the usual manner, give it a thin coat of shellac, then a thin coat of sandarac varnish; after the varnish is dry, soak in water and pour model without oiling impression, using a mixture of two parts of plaster and one part Spanish whiting, or a mixture of two parts of plaster and one of finely ground asbestos. The plate may be cast directly onto the teeth, or the base plate may be cast and the teeth attached in the usual manner of making rubber attachments. Teeth intended for rubber are most suitable for this work. If gum sections are used, grind square joints and slip a strip of writing paper into each joint while waxing up, removing just before flasking.

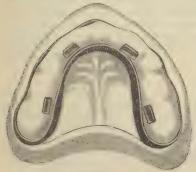


Fig. 2.

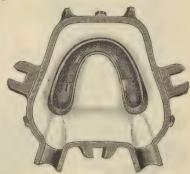


Fig. 3.

If simply a base plate is to be cast, a piece of ordinary base plate wax is carefully moulded over the model and trimmed to the gum line, and dove-tailed lugs added to secure the rubber. (See Fig. 1.) A rim with an under cut edge may also be added if desired. (See Figs. 2 and 3.) If for upper case, the base plate should be of much thinner wax. (See Fig. 2.) If the case is to be cast directly onto the teeth, set them up as an ordinary case for rubber, using care to make the base plate smooth and just as you want the plate to be when finished. This will save much time in finishing. Invest the case in the half of the flask having the guide pins, leaving only the base plate or base plate and teeth exposed. (See Fig. 3.)

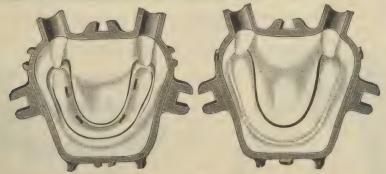


Fig. 4.

Watt's Metal Denture.—Continued.

For the investment, use plaster three parts and pulverized pumice stone one part. After hardening, trim carefully, and cut a groove from each heel to the pouring gaines, dust the surface with powdered soapstone, then add other half of flask, and bolt; place pledgets of cotton in the pouring gaines and fill, being careful to avoid air bubbles. When the investment has hardened, warm slightly, not enough to melt the wax, separate and carefully remove the wax. Cut grooves at heel corresponding with grooves in lower half, indicated by projections made by lower grooves. (See Fig. 4.)





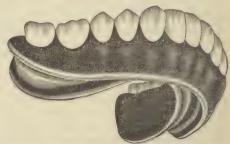


Fig. 6.

Place flask together and carefully dry in oven or otherwise until moisture will not condense on a cold mirror placed over the vents. While the flask is still warm, melt an ingot of the metal in the ladle without stirring or shaking it. Do not heat the metal very hot. Simply watch the ingot until it is entirely melted and pour in a gehtle, steady stream, stopping the instant it appears in the other opening. Do not jar or handle the flask until it has cooled, and use the melting ladle for nothing else. It is a good plan to pack moulding sand around the flask, or lute the joint with moistened koalin just before pouring to prevent the possibility of the metal escaping between the two parts of the flask. When nearly cold place the flask in warm water for a few minutes and remove the plate from the investment, cut off the surplus metal with a fine saw, and finish in the usual manner.



Fig. 5 illustrates a lower case ready for mounting teeth, and shows the manner of roughening the plate so the rubber will attach itself more firmly.

Fig. 6 illustrates a finished case and Fig. 7 a finished case with rim. Figs. 8 and 9 finished cases cast onto gum sections.

Fig. 7.

To repair, cut away metal enough to let the new tooth or block go in place, touch the margins with chloride of zinc, invest as for a new piece, and pour. When the break is very slight, some mend with a blow-pipe, using beeswax as a flux, with the metal as a solder, or, make an undercut in the region of the pins, fill with rubber, warm the tooth or block, press to place and vulcanize. It may also be repaired with a small soldering iron, using wax for a flux and Watt's metal for the solder. In repairing, the metal should be made hotter than for casting a new case.

Most beautiful upper or lower plates may be made by combining it with rubber or celluloid, when there would be too much weight in using the metal alone.

Fig. 8.



Fig. 9.

The Casgrain Flask-Closing Vulcanizer.

Patented in U. S., March 12, 1895; in Canada, March 18, 1895.

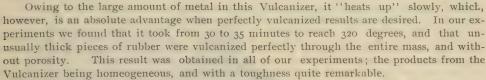
This Vulcanizer is the invention of Dr. Edmond H. Casgrain, of Quebec, Canada, and is of the class known as flask-closing vulcanizers.

This Vulcanizer possesses great strength, and is constructed in such a way that it is easily and quickly closed and made steamtight, and the flasks compressed with the utmost facility. The Vulcanizer is supported upon a steel jacket, bolted to the cast-iron base and ring, to prevent rotation, the base being constructed so that it can be screwed securely to the work-bench. As sent out, it is provided with a steam gauge (a thermometer being entirely useless), a blow-off and safety apparatus. Provision is also made for the attachment of the Lewis Graduated Gas Regulator when required, as shown in the illustration.

The steam gauge is mounted on an improved siphon, made of brass, polished and nickeled, thereby dispensing with the unsightly iron coil as commonly used.

The entire Vulcanizer is made of brass—with the exception of the pot, which is copper—of the best possible workmanship, highly polished and nickel-plated. The

highly polished and nickel-plated. The flasks are of special pattern, and adapted to this Vulcanizer only.



Flasks for the Casgrain Vulcanizer are designated No. 23, and should be ordered by number.





No. 23. Casgrain Cap Wrench.



HAIN VULCANIZ

MAR.12.189

No. 24. Stem Wrench.

Casgrain Vulcanizer, complete with two flasks and steam gauge	25.00
Lewis No. 4 Graduated Gas Regulator, with No. 2 Siphon, extra	5.00
No. 1 Time Regulator for above	4.00

The Lewis Cross-Bar Vulcanizer.

Patented October 2, 1894.

This Vulcanizer is entirely new in its essential parts, and embodies improvements suggested by many years of experience, both in handling and in manufacturing, and we have no hesitation in recommending it as the strongest, safest, most reliable and convenient Vulcanizer of the crossbar pattern on the market.

The pot is hand-made from copper rolled expressly for our Vulcanizers, is of unusual thickness, and is warranted to be perfect.

The cap resembles that used on the B. D. M. Co.'s Cross-Bar Vulcanizer, but is much thicker and heavier; besides, being ribbed on the underside to resist any strain that may be put upon it. This Cap has but two holes drilled in it; one for the mercury bath, to which the thermometer is attached; the other for the insertion of the Lewis manifold, which carries the safety valve, blow-off, gas regulator or steam gauge.

The ring that surrounds the pot is malleable iron and is of ample strength. Besides the lugs for taking the strain of the cross-bar and bolt, it has a dove-tailed projection for the insertion of a lifting handle. It will be observed that when



Lewis Cross-Bar Vu:canizer with Gas Heating Apparatus.

the cross-bar and cap are removed, there are no swinging bolts or attachments to the pot.

The Cross-Bar is of an improved form, and is made of malleable iron. One end is at right angles to the main bar and terminated by projections that catch under the lugs on



No. 21. Cross-Bar Wrench.



No. 20. Pot Lifter.

the ring. Over the projections is a small rib which prevents the bar from dropping out of position, these two projections, in fact, forming a hinge-guide. The other end of the cross bar has an enlarged portion for the reception of the bolt, and is terminated by a handle.



The Lewis Vulcanizer is closed by one bolt suspended in a slot on the hand-end of the Cross-bar. The bolt is squared to prevent rotation, and is surrounded by a spring for the purpose of disengaging it from the lugs when the nut is slacked off, and for always retaining the bolt perpendicularly, and forcing it in place automatically. It is not necessary to adjust the bolt in the lug, as the action of adjusting the cross-bar causes the bolt to assume its proper position.

Made in two sizes, 4-inch and 4½-inch diameter.

4-inch, 4½-inch.

No. 1, complete.....\$14.00 \$16.00 No. 2, complete..... 16.00 18.00 No. 3, complete..... 18.00 20.00



25.00 for alcohol or gas,

or

One hand only is required in tightening loosening the lid, which is entirely independent the hot-chamber.

kerosene..... alcohol or

3 3

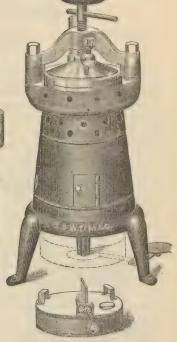
Two-Case Vulcanizer,



FOR GAS OR ALCOHOL.

No. 9 Lamp supplied for alcohol; No. 12 for
gas burner.

The advantages of this Vulcanizer are simplicity and strength.



FOR KEROSENE.

Improved Seabury Dry-Steam Vulcanizer.

Patented June 8, 1896.

Dr. Seabury claims that his Vulcanizer affords all the advantages for vulcanizing with dry steam. It has a dry chamber or oven for vulcanizing distinct from the steam-generating chamber or boiler, the two being connected by a pipe with a valve cut-off. The vulcanizing chamber has a capac-ity of three flasks. In the illustration the jacket is cut away to show the relative positions of the two chambers and their connection.

A Gas Burner



(see cut) is included in price.

PRICE.

Improved Seabury Dry-Steam Vulcan-



The 1890 Dry Chamber Vulcanizer.

Made by The Rochester Dental Mfg. Co.

The outside case, cast iron, screws on to bench, boiler largest size seamless copper, 41/2x6 in., taking three of the largest flasks, bronze metal top and attachments, boiler and whole top nickleplated, the combination of steam gauge safety valve steam cock and water trap all on one stem, thus having but one opening in the top, simplfying and rendering less liable to leakage. The gas regulator on the side of boiler, by which arrangement the gas may remain connected at all times and not necessary to disconnect as where regulators are screwed on top of Vulcanizer. Regulator does not begin to shut off gas soon as steam pressure is produced. as is the case with other regulators, but allows full flow of gas until nearly at vulcanizing point, thus saving much time.

These, together with the time cut off, makes the most complete and desirable Vulcanizer in the market.





No. 2 Improved Siphon

For the Lewis Graduated Gas Regulator No. 4, or B. D. M. Co. Steam Gauge.

Gas Regulators and Steam Gauges are usually mounted on unsightly iron crooks, that are liable to become closed by rust, which often prevents the proper operation of the Regulator or Gauge.

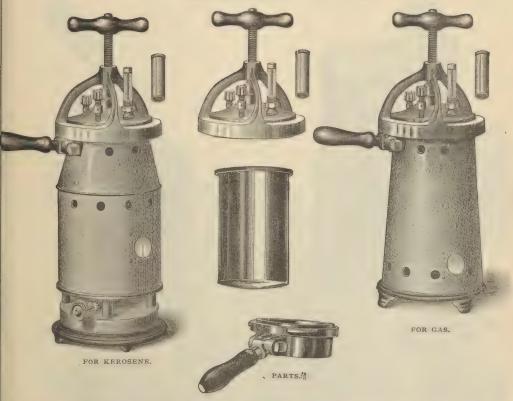
This is a Siphon that is in every way reliable, presents no objectionable features, and will not corrode. It is made entirely of brass, polished and nickle-plated.

and nickle-plated.

This Siphon is threaded for mounting the Lewis Graduated Gas Regulator No. 4, or our Steam Gauge.

The New-Philadelphia Vulcanizer.

Made by Gideon Sibley. Patented March 31, 1891, and Oct. 27, 1891.



he advantages of this Vulcanizer can be readily seen from the illustration. It is simple in its construction, strong and durable in all parts, and is closed and opened quickly and with ease. In closing, the tripod is placed upon the boiler, given a slight turn to the left, interlocking it with the lugs on the collar and screwing the cap down with the top or central screw.

In opening, reverse the above movements and lift the tripod from the boiler. The boiler is provided with a handle for lifting it out of the jacket to empty it of its contents.

The thermometer safety disk and blow off are secured to the lid.

In setting the tripod upon the bench, the lid or cover is elevated about ¾ of an inch, which prevents dirt from getting on the packing.

The illustrations show the Vulcanizer adapted for gas or kerosene.

PRICES.

2 Case, for Gas or Alcohol......\$18.00 3 Case, for Gas or Alcohol......\$20.00 For Kerosene, 50 cents extra.

Prices include Anchor Iron Flasks, one package Safety Disks, one Extra Packing Ring complete for use.

The Rochester Dental Manufacturing Co.'s New Vulcanizer.





Patented.
The Rochester Vulcanizer for Kerosene.

The new Rochester Vulcanizer is the only one made without screws or bolts, and is so simple and easy to adjust, that you need not soil your hands in using it, as only the wooden handle is used in opening and closing, and there is no possibility of it leaking steam; the highest finish, best material and most perfect workmanship are combined.

The outside iron case is made to fasten down on table or bench, thereby being held securely so that only one hand is used in opening and shutting the top.

To open the Vulcanizer, raise the handle (which disengages the cam) then throw the handle back over the top, which opens it and leaves it as shown on opposite page. To close the Vulcanizer the handle is brought forward, thereby throwing the cover in place, and allow the loop to fall over the projecting bar, when by lowering the handle the rotary cam is forced up and tightens down the top more direct, secure and safer from leakage than any other fastening we have seen, and is the only Vulcanizer that is fastened without screws or bolts, which makes it the most simple and convenient. No part is touched but the handle in adjusting, and a child six years old could do all the work without effort.

The Rochester Dental Mfg. Co.'s New Vulcanizer.



THE ROCHESTER VULCANIZER FOR GAS.

The bar and top of this Vulcanizer are made of bronze metal, tested under pressure of 42' lbs.; the boiler 4x5 inches inside measure, made of heavy rolled copper. The clamp and cam are made of the best tool steel, all of which is nickel-plated and polished.

Two Case Vulcanizer, with thermometer and two Brass Flasks	Ю
" Steam Gauge " " " "	00
Three Case " extra	
Vulcanizer fitted for Kerosene, extra 2.0	00
Large Heavy Dry Chamber Boiler 4½x8½ in. with Steam Gauge, gas regula-	
tor and time cut off, the best Vulcanizer that can be made 35.0)()

The Mann Vulcanizer.

Made by The S. S. White Dental Mfg. Co.



The engraving shows details of this apparatus. There's but one nut to bother with. When the Mann Vulcanizer is closed it stays closed. Stays closed until you want it opened, then there's the wrench—one turn does the business. The bail makes a convenient form of handle for handling the Vulcanizer when hot.

PRICE LIST WITHOUT STEAM GAUGE.

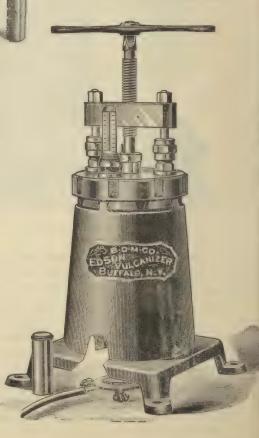
2-Case. 3-Case.

Vulcanizer, for alcohol or gas.....\$18.00 \$20.00 " " kerosene....... 18.50 20.50

The Edson Flask-Closing Vulcanizer and Celluloid Apparatus.

The flasks are closed inside the boiler after steam has been generated therein, by means of a screw and cross-bar which operate a clamping apparatus. The dentist is enabled to take adadvantage of the greater softness of the rubber consequent upon the higher temperature it is exposed to in the Vulcanizer.

Price, complete, for gas, alcohol or kerosene, \$25.00.



Vulcanizer.

Made by The Boston Dental Mfg. Co.



This Vulcanizer is made of the best bronze, so-called "Gun Metal," and is tested at one thousand pounds hydraulic pressure. It will hold three flasks of any kind with Donham spring, and allow plenty of room for handling.

This packing is moulded instead of being cut in strips, and will last for years without being renewed. The cover can be screwed steam tight without the use of a wrench, the same being necessary only to open after being heated. The small quantity of water used (one gill) produces Vulcanizing by steam instead of water, thus producing better results.

The bed plate jacket which is screwed to the bench allows an easy and ready method of handling.

The Crane Flask-Closing Vulcanizer.



This Vulcanizer has a screw-press attached to and forming part of the cover. Between the screw and the presser-foot which bears upon the flasks, is a heavy spiral spring, which equalizes the pressure, and follows up the flasks as they close.

The flasks, being packed in the usual way, are placed in the Vulcanizer, which is then closed, and heat applied; the screw being run down in the meantime until its bearing upon the flasks is felt. When the thermometer indicates 260 degrees, or thereabouts, the screw should again be turned down about three-quarters of an inch, or until a sufficient pressure is attained to insure the proper closing of the flasks. The gentle and continuous pressure of the spring will close the flasks perfectly, while the breaking of blocks and other effects of over-pressure will be avoided.

It will be observed that this apparatus gives the dentist complete control of the time for closing the flask. It is, therefore superior to the spring clamps, which must be operated before they are put into the Vulcanizer.

With this Vulcanizer will be furnished a heavy iron jacket, answering as well for a bed-plate for opening and closing the Vulcanizer. Special flasks with long guide pins, but without bolts, are furnished. The illustration shows the Vulcanizer as rigged for gas.

The pot of this Vulcanizer is 43% inches diameter. It is made of extra heavy copper, with a cast gun-metal bottom. The whole machine is made with special regard to strength and durability.

Crane Vulcanizer, complete, for two flasks, Gas Alcohol or Kerosene, \$25.00

Combined Bed-Plate and Kerosene Heating Apparatus. For the Crane, Edson and Whitney Vulcanizers.



The bed-plate ring has a side flange upon it, by which it is fastened to the edge of the bench so as to overhang. Depending from the ring is the jacket, to which the kerosene stove is attached. The necessity for cutting a hole through the bench is thereby avoided, and the stove is brought out to a convenient position for use. The Lamp has a

four-inch wick, is securely held, and easily removed for filling. This apparatus is furnished with the Edson or Crane Vulcanizers, without advance in price.

PRICES.

izer, in place of ordinary heating apparatus, 75 cents advance on list price of Vulcanizer.

Snow's Vulcanizers.

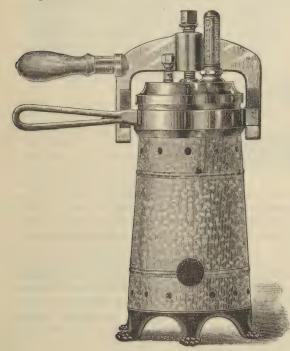
With Automatic Heat Regulators.

Manufactured only by Geo. B. Snow, Buffalo, N. Y.

These are the only Vulcanizers made, furnished with automatic heat regulators for ei her Gas or Kerosene. By the use of the Regulator, the dentist is relieved of the care of watching the Vulcanizer the temperature is more uniformly maintained, and the work done is, in consequence, of better and more uniform quality. The Vulcanizers are also fitted for use for

Snow's New Process for Vulcanizing.

This has now been in use for a sufficient time to fully test its merits, and is highly commended. By it, a closer adaptation of the rubber to the teeth is secured; the plate is, in consequence, rendered more cleanly; the teeth are more firmly attached to the plate, and a more perfect fit to the mouth is attained.



Snow's New Model Buckeye Vulcanizer.

Patented December 6, 1882.

This Vulcanizer combines the im portant requisites of strength, simplicity, convenience and durability in the highest degree, and is confidently recommended to the dental profession as the best Vulcanizer made. It has a seamless pot, of much thicker metal than is usually employed for the purpose, avoiding the failures incident to brazed seams, and thus greatly increasing the durability of the Vulcanizer. The cover fastening is strong, simple and easily operated; and the Vulcanizer can be opened and emptied while hot without the use of a towel or any protection for the fingers.

No.	τ.	Full Nickel I	Plate	\$14.00
No.			(
140.	2.			
No.	3.		3 1 7 1	10.00
			(cover nickeled, pot-ring and clamped japanned)	
No.	2.	6.6	***************************************	15.00
No	2	66 66		17.00

Snow's Cross-Bar Vulcanizer.

Manufactured only by Geo. B. Snow, Buffalo, N. Y. Patented June 13, 1893.



This Vulcanizer was introduced in 1890, and is a favorite with many dentists. Its cover fastening is strong, simple and easily managed, and the Vulcanizer is one among the many of the various cross-bar patterns which can be depended upon to retain its integrity under severe usage. As made by Dr. Snow, it has a seamless pot, drawn from a sheet of copper, without brazing. By dispensing with the brazed seams, the durability of the pot is very much increased.

This Vulcanizer has a cover fastening which consists of a cross-bar, and two swinging bolts attached to the pot ring; the bolts being received into recesses in the bar. By slacking off one of the nuts, the bar is released and can be removed; leaving only the two swing-bolts attached to the pot after removal of the cover.

The bolt passing into the recess next the handle of the cross-bar is the only one used in opening or closing the Vulcanizer; the bolt at the end of the bar being only neces-

sary for adjustment and levelling the cross-bar to preserve its parallelism with the cover. This point is often overlooked in designing cross-bar Vulcanizers, and in many of them the bar will not be parallel with the cover unless the packing is of an exact thickness. There is a spur upon the wrench, by means of which the cover may be pried off and loosened if it should stick.

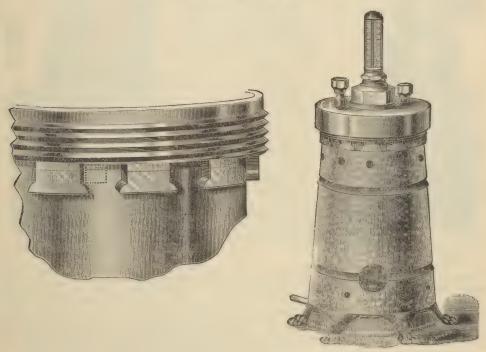
The Vulcanizer is also furnished with a removable pot handle which fits a dovetail notch in the pot ring; by means of which the pot may be conveniently taken up and carried about, or emptied when hot. By means of these attachments, the Vulcanizer can be opened while hot, and emptied of its contents, without having recourse to a towel or other means for prevent ing the fingers from coming in contact with it, it not being necessary to touch the Vulcanizer, in manipulating it. The cross-bar is entirely separate, and the only parts having attachment to the pot when the Vulcanizer is open are the two swing bolts.

No.	T.	Full 1	Nickel F	late		 	 		£14.00
No.	2.	6.6	66		• • • • • • •	 	 		16.00
No.	3.	"	6.6	6.6		 	 	***********	18.00
									-
No.	3.	6.6	6.6						_

Snow's New Model Whitney Vulcanizer.

Manufactured only by Geo. B. Snow, Buffalo, N. Y.

Patented December 22, 1891.



Patented December 30, 1890; December 22, 1891.

The "Original" Whitney Vulcanizer is the most widely known and used of any dental vulcanizer; having been in the market for over thirty years. While it has been superseded, to some extent, by other and later patterns, there are many who still prefer and use it.

The "New Model" Whitney Vulcanizer embodies the results of some twenty-five years' experience in the manufacture of the "Original," and contains several improvements.

One of the annoyances incident to the use of the Whitney Vulcanizer has been the insecurity of the hold of the round wrench upon the pot; and its slipping will soon wear away the notches, so that it is almost impossible to secure a firm hold for it. In the New Model Whitney, these parts lock together; the notches on the pot-ring being provided with lugs, as shown in the enlarged engraving to the left above. The dotted square represents the lug upon the wrench; and it will be seen that no amount of lateral pressure will cause it to slip.

The screw thread connecting the pot and cover has been made coarser and stronger, giving it increased durability. The pot is increased in depth, accommodating extra deep flasks, or those with spring bolts.

No.	1	Vulcanizer,	for.	one	flask,	for	Gas,	Alcohol or	Kerosene	:	\$12.00
No	2	6.6	6.6	two	flasks,	6.6	6.6	6 6	6.6		14.00
No.	2	6.6		three		- 6.6	6.6	6.6			16.00

The Whitney Vulcanizer.



The Whitney Vulcanizer was invented by the late Dr. B. T. Whitney more than thirty years ago. It consists of a copper pot, four inches in diameter, on which a brass head is screwed; a steam-tight joint being made by means of a rubber-packing in the head, which bears upon the edge of the pot. The pressure is

edge of the pot. The pressure is thus brought evenly upon the parts, the screw-thread supporting the pot and preventing it from being drawn

out of true.

The B. D. M. Co.'s Safety Apparatus is applied to this Vulcanizer. This gives way and allows the escape of steam, if the temperature of the Vulcanizer should, by forgetfulness or oversight, rise to a dangerous extent. Experiments have shown a variation of as much as twenty degrees in the temperature as indicated by the thermometer, depending upon the presence or absence of air in the Vulcanizer; the mixture of air and steam not allowing the heat to pass freely through it to the thermometer. A Blow-off Valve has therefore been added, by means of which the air





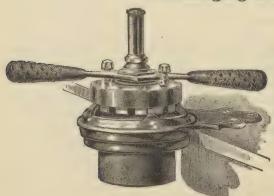
can be expelled from the Vulcanizer while it is heating up. These two adjuncts are

mounted on the Lewis Manifold.

The Whitney Vulcanizer is closed by means of two wrenches, Nos. 3 and 8. These form the most convenient means for the purpose, for the traveling dentist. For those having a regularly appointed laboratory, the bed-plate and wrench, Nos. 9 and 10, are recommended. These are furnished with the Vulcanizer instead of the round and straight wrenches, Nos. 3 and 8, without any advance in price. If a hole in the bench is not practicable, the Raised Bed-Plate, No. 16, will be furnished at an advance in price of 75 cents. See also Overhanging Bed-Plate. The No. 17 Flask Wrench answers to close the flasks and the blow-off and safety valve. The heat is supplied by either gas, alcohol or kerosene.

No. I. Whitney Vulcanizer, 4-inch, for one flask, gas, alchohol or kerosene, \$12.00.
No. 2. '' '' two flasks, '' '' 14.00.
No. 3. '' '' three '' '' '' '' 16.00.

Overhanging Bed-Plate.



For Whitney Vulcanizer.

The combined bed-plate and kerosene heating apparatus, originally designed for the Edson and Crane Vulcanizers, has recently been altered to be used as an overhanging bed-plate to accommodate both the 4-inch and 4½-inch Whitney Vulcanizers.

This Bed-Plate is very strong, and is secured to the work bench by three screws. It obviates the necessity of cutting a hole in the work bench as required by some other patterns of Bed-Plate.

The engraving also shows our improved Bed-Plate Wrench No. 10.

PRICES.

 No. 19.
 Bed-Plate, for 4-inch Whitney Vulcanizer
 .75 cents.

 No. 19A.
 '' 4½ inch Whitney Vulcanizer
 .75 ''

 No. 10.
 Improved Bed Plate Wrench
 .50 ''



The Hayes Vulcanizer.

The Hayes Copper Boiler consists of a copper pot four inches in diameter, a cover containing the packingjoint, and a collar which screws upon a threaded ring which encircles the pot, and bears upon the cover to tighten the joint by means of three set-screws, which are plainly shown in the engraving. This fastening in the engraving. This fastening has proved to be very substantial. The Iron Clad Boiler is made precisely like the Copper Boiler above described, except that the copper pot is covered by a shell of malleable iron strong enough to withstand many times the pressure of steam used in vulcanizing. It is only made of 4 inches diameter, and for one, two, or three flasks. The B. D. M. Co.'s Safety Apparatus and a Blow-off Valve form part of the equipment of the Hayes Vulcanizers, and are mounted on the Lewis Manifold.



No. 17. Flask Wrench.

The Flask Wrench, No. 17, here illustrated, answers for closing the Hayes Vulcanizer and the flasks and operating the safety-valve and blow-off

Either gas, alcohol or kerosene heating apparatus is furnished as required.

No.	I	Haves	Vulcanizer,	Copper,	Gas,	Alcohol	or	Kerosene	\$12.00
No.	2			35.	66	6.6		6 6	14.00
No.	3	6.6		6.6		6.6		6.6	16.00
No.	I	6.6	" Ir	on Clad,	Gas,	Alcohol	or	Kerosene	13.00
No.	2	6.6			6.6	6.6			15.00
No.		6.6	6.6	6 6	6.6	6.6		6.6	17.00

Four and One-Half Inch Screw-Top Vulcanizer.

This is made from the Edson patterns, without the clamping arrangement. It has the same screw fastening for the cover as the Whitney Vulcanizer; and it is, in fact, a large size of that machine. It is 4½ inches diameter, large enough to take the B. D. M. Co.'s "Large" flask if desired for dental purposes, and can be made to order, of any depth required for special use, such as rubber-stamp work.

Four and One-Half Inch Hayes Vulcanizer.

This Vulcanizer is the same as the ordinary Hayes Copper Boiler in all respects except size. It is half an inch larger in diameter, and is preferred by dentists who like to use extra large flasks, and have ample room for them. It is also used for rubber-stamp work to some extent, and for this purpose can be made specially of any depth to ten or twelve inches.

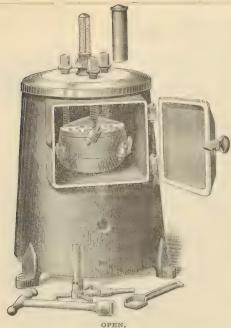
Two sizes kept in stock, for two or three flasks.

No.	2,	4½-inch	Hayes	Vulcanizer,	Gas,	Alcohol or	Kerosene	\$16.00
				6 6				18.00

Repairs on Vulcanizers.

TAKE NOTICE.—We must insist on having all parts of a Vulcanizer sent us for repairs. Dentists will save themselves much annoyance, delay and at times additional expense, by observing the above rule. All Vulcanizers, after being repaired, are thoroughly tested, no matter how trivial the repairs have been, and unless we have all the parts, we can not be sure that the repaired Vulcanizers are steam tight and in a satisfactory condition. In every instance, send Cap, Thermometer and Pot. This rule also applies when a gas regulator is to be fitted to a Vulcanizer.

We will quote prices on any part of any Vulcanizer when requested.



The "Best" Hot Moist Air Celluloid Apparatus.

Patented July 14, 1868; July 6, 1875. Reissued July 21, 1874.

The inside chamber is of cast-iron, surrounded by a sheet-iron casing. The lid, of cast-iron, forming a part of the clamp, is pierced for the passage of three wrought-iron screw-bolts,—the nuts being on the upper side and easy of access. When these nuts are turned for the purpose of closing the clamp, the bottom portion of the clamp is drawn up by each revolution away from the flame, thu avoiding the danger of overheating the plate and securing a uniform heat.

PRICES.

Gas	til.oo
Alcohol	
Kerosene	
Two iron flasks are included with each at	paratus.
Iron Flasks, separately, each	
Brass " "	

The Brown Celluloid Apparatus.

DRY HEAT.

Malleable Iron Flasks and Wrenches. This apparatus is recommended as excellent for moulding celluloid plates by the "Dry Heat" process. It will be found a very convenient appliance and capable of turning out work equal to some much higher priced machines.

PRICE.

Brown Celluloid Apparatus, complete, including one flask, large and small wrench for gas, alcohol or kerosene....\$6.00

The Seabury Dry-Heat Celluloid Apparatus.

Made by The S. S. White Dental Mfg. Co. Patented December 30, 1890.

The guide pins of the flask are made inclined and removable, to facilitate opening the flask and prevent the plaster investment from being broken. A dovetail lock is provided, so that the flask when closed can be removed from the heater and left to cool without the use of a vice or clamp. The flask is closed by three screws passing through the roof of the molding-chamber. The pressure can thus be adjusted exactly to the needs of the case in hand so as to produce a dense plate.

PRICES.

Apparatus complete, including inclined-guide, removable-pin lock-flask, two wrenches and gas-burner \$20.00 Extra Flasks, each 5.00





Vulcanizer Wrenches and Bed-Plates.

Malleable Iron.



No. 1. Edson or Crane Vulcanizer Cap Wrench. Price, . . . 75 cents.



No. 2. Edson or 41/2-inch Whitney Bed-Plate. Price, . . . 25 cents.



No. 21. Lewis Cross-Bar Wrench. Price, . . 25 cents.



No. 22. Howell Packer Wrench. Price, . . 30 cents.



No. 11. Vulcanizer Top Wrench. Price, . 25 cents. For the Crane or Edson Vulcanizers and the Howell Packer.



No. 14. Edson Stuffing-Box Wrench. Price, . 15 cents. One end for tightening the stuffing-boxes; the other for safety apparatus and blow-off.



No. 9. Bed-Plate for Whitney Vulcanizers. Price, . . 25 cents.

No. 18. Pin Wrench for Crane Price, . . 15 cents.



No. 19. Spanner for Crane Vulcanizer. Price, . . 15 cents.





No. 17. Hayes or Whitney Flask Wrench; also for safety Valve and Blow-off.

Price, . . . 15 cents.



No. 8. Whitney Round Wrench, Price, . 50 cents.

No. 16. Raised Bed-Plate.

No. 16. Raised Bed-Plate.

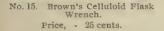
Designed for the 4-inch Whitney Vulcanizer only. It obviates the necessity of cutting a hole in the bench for the Vulcanizer. Price, . . . \$1.00.



No. 12. Brown's Flask Wrench. Price, . 15 cents.



Pot Handle for Lewis No. 20. Cross-Bar Vulcanizer. Price, . 15 cents.

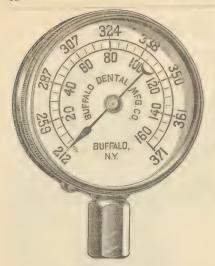




No. 10. B. D. M. Co.'s Improved Bed-Plate Wrench for Whitney Vulcanizers. Price, . . . 50 cents.



No. 3. No. 4. Whitney Straight Wrench. Wrench for Crane Stuffing Box Price, . . 25 cents.



Steam Gauges for Vulcanizers.

We have a small, neatly made Steam Gauge, with beveled glass, of a new pattern, as well made and reliable as any steam gauge, having pressure and temperature both indicated upon the dial. The case is two and a half inches diameter.

These Gauges are attached to vulcanizers by means of a coil pipe—which is supplied with the Gauge—or No. 2 brass siphon, and can be depended upon as being more sensitive in their indications than

thermometers.

PRICES.



Mercury Bath Thermometers.

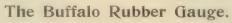
For Dental Vulcanizers.

The great quantity of unreliable thermometer tubes furnished by different parties induced an investigation to ascertain, if possible, the causes of their failure, and we are glad to say it has resulted in an improvement both in the quality of material used and the manner of production; and, as a mark of distinction to protect the dental profession from imposition, the Buffalo Dental Manufacturing Co. has caused a trade mark to be registered in the Patent Office. This consists of a red stripe extending along the back of the white ground commonly employed in thermometer tubes. It is formed in the tubes in the same manner as the white ground itself.

Hereafter all of their tubes will have this mark in the glass, and all the scales will have the initials B. D. M. CO. stamped on the face.

PRICES.

Mercury Bath	Ther	mometer a	nd Case,	complete	 \$1.75
Thermometer	Tube	and Scale.			 .75
Thermometer	Case.	only			 1.00





For Determining the Necessary Quantity of Rubber to be Used in Packing Dental Flasks.

This consists of an ordinary tumbler, with a dished cover of spun brass, having a short, flat tube soldered into a center opening. The trial plate is put into the tumbler, which is nearly filled with water, so that when the cover is put on, a little will overflow into it through the flat tube. The overflow is then thrown away, the trial plate removed, and replaced with rubber. When the water again stands at the top of the tube, the gauge contains exactly the bulk of the trial plate in rubber. The small sectional area of the tube, the only escape which is afforded to the water, renders the gauge very sensitive, and a very exact measurement is secured. The operation takes but a minute's time, and will be found a much better method than guessing.

Buffalo Rubber Gauge.....50 cents.





Kerosene Heating Apparatus.

For Dental Vulcanizers.

This stove is of our own design, and is especially adapted to vulcanizer work. It has a four-inch wick, and will be found to have ample power. This stove is now furnished with all of our vulcanizers, when ordered 'for kerosene,' without advance in price. As the size of the jacket varies for different vulcanizers, it is important, when ordering, to state the kind of vulcanizer the stove is to be used with, and its size; whether one, two or three case.

Kerosene Heating Apparatus, complete, \$1.50

Heating Apparatus for Vulcanizers.

The S. S. White 4-inch Burner Kerosene Stove.

The new 4-inch burner Kerosene Stove has a larger wick surface than the old, and will consequently give a higher heat. It is also more substantially made, the device for regulating the flame being especially a decided improvement over the old form. It takes a firm hold of the wicks, moves them steadily and accurately, and is not likely to get out of order.

Price......\$1.50



Alcohol Heating Apparatus.

For Dental Vulcanizers.

This Heating Apparatus was designed by the late Dr. B. T. Whitney about twenty-five years ago, and remains the same in its general features as when it left his hands, although improvements have been made from time to time in minor points. The wick tube is five-eighths of an inch in diameter. The wick is moved to adjust the size of the flame by means of the lever which projects from the side of the lamp body.

The lamp is placed under a cast iron stand, which protects it from the radiated heat, and the vulcanizer is supported by the galvanized iron jacket shown in the outline.

Price Alcohol Heating Apparatus, complete...\$1.50

Gas Heating Apparatus.

For Dental Vulcanizers.

The jacket and stand used in this form of Heating Apparatus are the same as with alcohol; the Laboratory Gas

Burner being substituted for the alcohol lamp.

The gas burner is available for general purposes about the laboratory or office when not in use for vulcanizing. With the addition of the spider, as illustrated on another page, it can be used for heating water.

PRICE.

Gas Heating Apparatus, complete.....\$1.50



Dental Flasks.

A variety of Flasks for vulcanite work is illustrated below. The cuts give a good idea of their appearance and construction, and their inside dimensions in inches are also given. measurements are given in the following order: 1st, From front to back; 2d, From side to side; 3d, Height.



No. 1. Whitney Flask, (New Style.) Size, 21/2 x 35/16 x 17/16.

This is the Flask usually furnished with the Whitney Vulcanizer. The bolts pass through lugs on the lower section, and holes in the cover, and receive nnts, by which the flask is closed.

Brass\$1.25 Malleable Iron 8oc.



No. 5. Hayes Flask. (Size, 23/4 x 31/4 x 13/8.)

The bolts are hinged to a circular plate, forming a "clamp," by which the Flask is closed. By slackening the nuts, the bolts can be swung outwardly to release the Flask from the clamp. Made either in malleable iron or brass. The clamp is always malleable iron.

Brass, with clamp.....\$1.50.

Malleable Iron....\$1.00.

Clamp, separately..... 50c.



Whitney Flask. No. 4.

(Deep.) Size, 23/8 x 33/16 x 11/16.

For flasking partial plates, when it is desired to pack the rubber from the lingual side, and retain the teeth in close contact with the model. Also for repairing plates. Made from the same patterns as the ordinary Whitney Flask, with extra deep lower section.

Malleable Iron.....8oc.



Malleable Iron.....8oc.

No. 6. Edson Flask. Size, 23/4 x 37/16 x 19/16.

Designed by Dr. Edson, for use with his vulcanizer. It is closed by the stirrup mechanism, which forms one of the peculiar features of the Edson Vulcanizer, and consequently has no bolts. It has very long and heavy guide-pins, and is intended for use with either vulcanite or celluloid.

Cast Iron.....



No. 7.

Brass......\$1.25.

No. 7. Slot Flask.

Size, 2½ x 3¼ x 15/8.

This Flask has a deeper ring than the No. 1 Whitney, but is of the same dimensions in other The bolts are held in between ribs, as shown, and are removable by slackening the nuts. Tae ribs support the cover and lower section, and the Flask retains its shape well if made in brass.

Brass......\$1.25. Malleable Iron.... 8oc.

No. 13. Slot Flask.

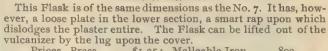
(Deep.) Size, 2½ x 3½ x 1%. The upper part of this Flask is the same in size as the No. 7, the lower section being about a quarter of an inch deeper. The same bolts are used as with the No. 7.



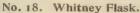
Dental Flasks.—Continued.

No. 8. Brown Flask.

Size, 21/2 x 81/4 x 15/8.



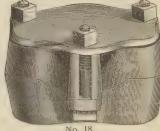




(Large.)

Size, 23/4 x 35/8 x 13/8.

Made in brass and malleable iron, with ribs on the ring to support the cover. Will go edgewise into 4 inch vulcanizers, or flatwise into those 41/2inch diameter. Prices, Brass...\$1.25; Malleable Iron...8oc.



No. 18.



Extra Long Bolts with Springs, for Whitney Flasks. - These bolts and springs will be found to be a perfect substitute for the Donham, or other spring clamps.

Prices, Extra long bolts with springs, per set of three, 15c. Springs only, per set, No. 1, 4 or 18 Flask, with long bolts and springs, 8oc.

No. 20. Crane Flask.

Size, 2% x 3½ x 15%.

This Flask is designed especially for the Crane Vulcanizer. and is the only one used in it. It is a large sized and strong Flask. Made in brass only. No bolts required.

Price, Crane Flask, brass.....\$1.50.



No. 20,

No. 16 .-Elliot Flask. Pat. Sept. 18, 1883. Size, 23/4 x 31/4 x 15/8.

The clasps swing over inclines or lugs

on the cover. The guide pins are steel, full size and parallel, so that the parts are sure to return to place. The Flask can be carried when hot by a wire hook. The Flask is used for rubber or celluloid. Made in brass only. Price, Elliot Flask, brass........\$1.50.



No. 21. Hughes Wedge Clamp Flask.

Pat. Aug. 2, 1887. Size, 23/4 x 33/8 x 13/8.

The several parts of this Flask are held together by means of keys passing through slotted clamps, thereby doing away with the ordinary bolts and nuts. This method is represented as being a very quick way of securing the Flask together. Made in brass only.

Price, Hughes Flask, brass.....\$1.50.



No. 21.

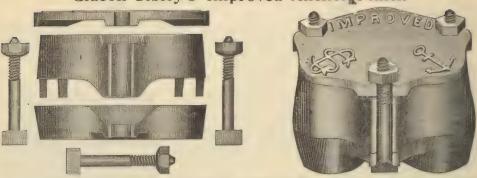
No. 14. Brown Celluloid Flask. Size, $2\% \times 3\% \times 1\%$.

For Brown's Celluloid Apparatus. Very strong, heavy and capacious. This Flask has a loose plate in the lower section, by rapping on which the plaster is removed entire. Pricc, Malleable Iron.....\$2.00.

No. 22. Donham Flask.

Used in connection with the Donham Spring. Price, Donham Flask, brass\$1.00.

Gideon Sibley's Improved Anchor Flask.



The above cut represents a flask of Gideon Sibley's make, it being greatly improved over the old style Anchor Flask, in many respects, as follows:

It is larger in size and much thicker, weighing nearly two-thirds more.

It has much longer guides, and is so constructed that it is impossible for the bolts to slip, thus making it the most perfect and convenient flask in the

Any vulcanizer measuring 3% inches in diameter inside, will admit this flask easily.

Brass,	1.25,	postage.	25 cents.
Malleable Iron,			
Extra Bolts, per set,			free
Wrenches,	.10.	6.6	6.6

Box Flask. Made by The S. S. White Dental Mfg, Co.



This Flask is specially designed for extra large cases or for appliances such as splints for fractures, etc. It is made in two sizes, viz.:

No. 1 adapted to two-case vulcanizers.

No. 2 adapted to three-case vulcanizers.

The construction of the Flask is such that very nearly all the available space in the boiler is utilized.

Price, each\$1.20

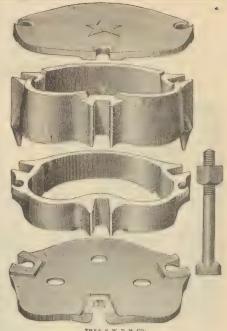
Dental Flasks.—Continued.

The Improved Star Reversible Flask.

Made by The S. S. White Dental Mfg. Co. Patented August 21, 1883.



The rings are of different widths, either of them fitting the top or bottom accurately. The narrow ring is used next to the bottom plate, for whole dentures. By using the wide ring next to the bottom, an admirable Flask is obtained for deep cases and partial sets. The bottom has three countersunk holes through which the plaster runs.



THES.S. W.D. M. CO.

Wedge-Clamp Flask.





The Seabury Dental Flask.

Patented January 30, 1883.

Reversible Pin-Locking Flask.

Price, each......\$1.50

Reversible Self-Locking Flask.

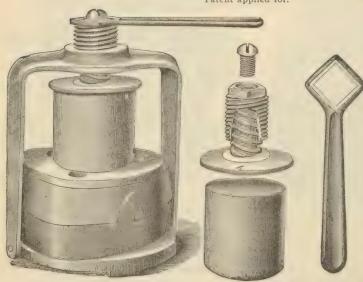
Price, Iron............\$1.25; Brass...........\$2.00.

Griswold Flask.

Price.....\$2.00

The Seabury Rubber Compress.

Made by The S. S. White Dental Mfg. Co.
Patent applied for.



When this Compress is used, the rubber is under pressure constantly during vulcanization and when cooling. This Compress produces a tough, dense plate, uniform in texture and thickness, without liability to spread the teeth or crack the blocks or investment.

Made for two or three flasks. When one case is to be vulcanized in a two-case press, a block is used in place of the second case as shown in the cut. The cut shows a two-flask Compress.

Price, including lever and block,\$2.00

Dr. Donham's Spring-Clamp for Flasks.

Our Whitney Flask Bolts are made from patterns, with extra thick nuts, which give about double the wear to the bolt, as compared with those formerly made.

those formerly made.

Our Hayes Flask Bolts are made of Forged Steel, with malleable iron nuts. Purchasers will please observe that the genuine Hayes Bolts are stamped "B, D. M. Co." on the bolt, and the words "Forged Steel" are on each package of bolts. We believe our flask bolts to be the best and most durable in the market. Each set is now put up in a suitable box bearing our imprint.



Whitney New Style. Whitney Slot. Hayes Clamp. Set Screw for Hayes Vulcanizer. "Star."

Whitney New Style.per set of 3, 12 cents.



B. D. M. Co.'s Improved Safety Apparatus.

For the Prevention of Vulcanizer Explosions.

This apparatus consists of a thin metal disk, which is retained on the face of a hollow stud by means of a screw-cap. If the vulcanizer is neglected, and the steam pressure is allowed to rise so as to be dangerous, the safety disk will be blown out, and the pressure will be relieved.

The engraving shows the manner in which the disk and

washer are applied.

The genuine "B, D. M. Co." safety disks are manufactured only by the Baffalo Dental Manufacturing Co.

PRICES.

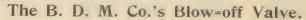




Snow's Safety Disks.

Patented Dec. 30, 1890.

For any make of vulcanizer mounted with a safety apparatus, using the copper disk. The most uniform in strength of any. The only make having the copper washer, to be placed under the disk, rendering them applicable when the face of the stud is out of true, and when others cannot be used with satisfaction.

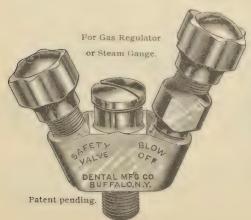


This should be opened when heat is applied to the vulcanizer, and allowed to remain open until there has been a free escape of steam for two or three minutes. The air passes out with the escaping steam, and an atmosphere of pure steam in the vulcanizer is secured. The thermometer, under this condition, will always show the same temperature for a certain steam pressure. A variation between the indications of the steam gauge and thermometer of as much as 20 degrees has been noticed when the air was allowed to remain in the vulcanizer.



B. D. M. Co.'s Blow-off Valve......75 cents.



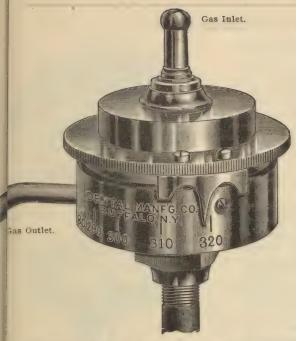


The Lewis Manifold

For Dental Vulcanizers.

This device is made to carry the blow-off, safety valve and gas regulator, or steam gauge—as used on dental vulcanizers—all in one casting, and obviates the necessity of drilling two or more holes in the vulcanizer cap for the insertion of these adjuncts.

PRICES.



No. 4 Lewis Graduated Gas Regulator.

FOR DENTAL VULCANIZERS.

An entirely new Gas Regulator, superseding the Coolidge-Lewis Regulator, No. 4.

Patented May 15, 1894.

Gas Regulators for Dental Vulcanizers have been in use for a number of years, and have received the highest possible commendation from those using them. They wholly relieve the operator from all care or anxiety about vulcanizing, leaving him free to attend to patients, or leave the office for an unlimited time, if he so desires.

The Gas Regulator holds the temperature of the vulcanizer at the proper point, and the Time Regulator shuts off the gas at the proper time. Adjustment is

easily made for a higher or lower temperature, or for a longer or shorter time, so that as complete control is had of the vulcanizing process as would be possible by the most careful attention, without the necessity of any oversight by the operator after the proper adjustments are made, and the gas under the vulcanizer lighted. Owing to the extreme regularity of the heat, better results are obtained in vulcanizing than by the usual methods. In a word, no dentist who uses gas for vulcanizing can afford to be without a Gas Regulator if he values his time, comfort or safety.

The Buffalo Dental Manufacturing Co. have from time to time brought out several successful Gas Regulators, and from the experience gained in this special line of goods, have now been enabled to produce a Gas Regulator that is believed to be superior in very way to any heretofore constructed.

The No. 4 Lewis Graduated Gas Regulator, while resembling in outward appearance other Regulators heretofore manufactured, is in its essential points entirely different from them, and a trial of many months has proved it to be a remarkably perfect and reliable Regulator. This Regulator is capable of being set to temperatures varying from 280° to 320°. To vulcanize at any of the degrees of temperature marked on the graduated base, all that is required is to turn the milled hand-plate till the pointer is over the degree desired. This can be done either before or after lighting the gas under the vulcanizer. A small screw is inserted in the base, which acts as a stop for the pointer, and prevents the Regulator from being set, either by design or accident, to maintain a higher temperature than the highest graduation on the base, thereby endangering the safety of the vulcanizer. This Regulator requires no special adjustment after leaving the factory. We strongly recommend the No. 2 brass siphon for mounting all gas regulators or steam gauges.

Coolidge Gas Regulator, No. 2.

This improved form of the Coolidge Gas Regulator is intended especially for use with any style of vulcanizer which exceeds the dimensions of the Whitney or Hayes Vulcanizers, and requiring a larger gas supply than they do. By the use of multiplying levers, the valve is moved so quickly that it will turn on a full flow of gas if the pressure drops but two or three pounds. It will operate equally well whether a large or small quantity of gas is used, and is applicable to the Whitney or Hayes Vulcanizers

It has a special adjustment for controlling the amount of gas which must be allowed to pass to keep the burner alight when the desired temperature and pressure are attained and the gas is turned down. By this adjustment the burner may be kept alight whether it be a small laboratory Bunsen or one of three or four times the size. This adjustment is made by turning a small screw at the back of the case. Its adjustment for temperature and pressure is also new, quickly comprehended and easily operated. It is made by turning the milled plate which forms the back of the casing

DENTAL M'FG. C. 2015 LONN

milled plate which forms the back of the casing. This causes the valve-seat to approach or recede from the valve, as will be seen by looking through the glass front.

Coolidge Gas Regulator No. 2, without Time Regulator \$7.00 Coolidge Gas Regulator No. 2, with Time Regulator.....12.00



Coolidge Gas Regulator, No. 1.

This device was invented by Dr. J. B. Coolidge, of Boston, about the year 1871. A number of them were made and sold at that time, and are to-day in good condition. Its use will wholly relieve the dentist of the care of watching the vulcanizer, leaving him free to go out of the office for an unlimited time, as soon as the gas is lighted under the vulcanizer. It is operated by the pressure of steam upon a thin metal disk, which, yielding to the pressure, closes a valve which controls the flow of gas to the burner under the vulcanizer. The disk will not lose its elasticity by use, nor give way from the effects of corrosion; and the Coolidge Gas Regulator No. 1 is offered to the dental profession with the assurance that it will be found to be accurate, serviceable and durable.

Coolidge Gas Regulator No. 1, without Time Regulator...........\$5.00 Coolidge Gas Regulator No. 1, with Time Regulator...................................9.00



Time Cut-off for Vulcanizer.

Price, \$4.00.

It will be noticed that the clock we use for gas cut-off is different in style from any others made. This is one of Seth Thomas' best clocks, which is known to be the best in the market, insuring safety and certainty as to results.

A complete vulcanizing apparatus with a standard steam gauge and a reliable gas regulator, a gas cut-off that can in every case be depended upon, is certainly very desirable in any laboratory. If after the vulcanizer is closed and the gas turned on, it can be banished from mind or it may be the last thing done in an office before closing for night, with the assurance that your job will be vulcanized properly and all cooled off when you return in the morning, must be appreciated as one of the most satisfactory adjuncts in a complete dental laboratory, but if there is any uncertainty in this work, the gas regulator failing to control the flow of gas at just the heat that it has been adjusted, and in its defective work has run up so as to blow out the safety disk. Room filled with steam and time wasted. Or what will be equally bad, if the time gas cut-off, like old Billings, had concluded to take a rest, as is very frequently the case with the cheap dollar clocks generally used for gas cut-off, and in the morning you find the gas has been burning all night and ruined work in vulcanizer, it makes then one of the most unsatisfactory and annoying.

This cut-off is made perfect in its workings so there can not possibly be a question of its turning out the gas, if the clock does not stop, and the reliability of this clock is the best guarantee we can give; if the clock is kept wound it will in every case do its work as required.

We therefore feel safe in guaranteeing that in every case it will do just what is expected and is made to do. This time cut-off can be attached to any vulcanizing apparatus. Full directions accompany every one sent out.



New Design Gas Burner and Blow Pipe.

Invented and patent applied for by Dr. F. H. Lee.

Fig I represents a most perfect Bunson Gas Burner with a perfect white flame that can not be started at the base and producing the greatest possible heat for the capacity of gas consumed in one flame. It is made of heavy brass with fine sieves over all openings and with the large square base not easily overturned.



Fig. 3.

Fig. 2 represents attachment applied to No. 1 Burner, which gives a side flame especially convenient for waxing up plates, etc. It can be removed and replaced without extinguishing the flame. As shown on annexed cut, a piece of rubber tubing connecting this with foot blower makes a very convenient blow pipe for ordinary work.

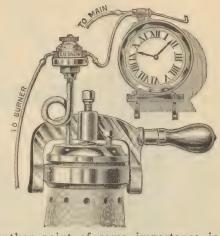
Or by removing this right angle attachment and connecting it direct with the gas supply as shown in Fig. 3, and the graded shut off, the flame is increased to the largest possible capacity and a very powerful blow pipe is had, which will readily melt metal.

Price complete, \$2.00.

Snow's Gas Regulators.

Manufactured only by Geo. B. Snow, Suffalo, N. Y. Patented Oct. 17, Oct. 31. Dec. 19, 1893.

These Regulators are the same, in many respects, as the Coolidge Gas Regulator, so long and favorably known, but embody several points of improvement thereupon. The greatest of these is the adaptation of the Index; whereby the operator is enabled to change the adjustment of the Regulator at any time, and with the greatest ease, for any required temperature or pressure within its range. So valuable is this improvement that Gas Regulators not possessing it have been driven out of the market; and it is only by imitation that they have been put into condition to meet



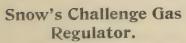


the demand. Another point of some importance is the use of drooping nozzles for the gas attachments. These prevent the collapsing of the rubber tubing, and the accidental introduction of dirt, which is apt to interfere with the operation of the Regulator. Two varieties of Snow's Gas Regulator are offered for sale, viz:

Snow's Index Regulator.

This will operate under the greatest range of pressure or temperature of any Gas Regulator in the market. It is also the most sensitive and accurate; having a long spring which bears upon the diaphram and supports the steam pressure.

Index Regulator, with Timing Attachment, \$6.00 Timing Attachment, separately................. 3.50



A thoroughly efficient and simple device, second only to the Index Regulator in sensitiveness. Has the index and the drooping nozzles, and is guaranteed to give satisfaction.

The Cheapest Gas Regulator Made.



Three-sixteenths rubber tubing fits the nozzles. Larger nozzles, for five-sixteenths tubing, can be furnished at 50 cents extra. Four feet of rubber tubing is furnished with each Regulator sold with timing attachment.



Snow's Kerosene Regulator.

FOR DENTAL VULCANIZERS.

Manufactured only by Geo. B. Snow, Buffalo, N. Y. Patented March 17, 1896.

Snow's Kerosene Regulator is intended to do, with kerosene, just what the Gas Regulator does with gas. It has an Index, by which it can be set to hold the vulcanizer at any temperature desired; and when this is done, and the timing attachment properly adjusted, the dentist need concern himself no further about his vulcanizer until he is ready to finish the plate. The temperature will be accurately held, and the flame extinguished at the proper time, and he is free to leave the office for an indefinite time, until the next day, if he wishes, with the certainty that the plate will be found well vulcanized and ready for finishing on his return.

The apparatus is an adaptation of one form of Snow's Gas Regulator, now so well and favorably known, to the regulation of the flame of the ordinary kerosene stove; its operation being as follows: The steam pressure acts upon a diaphragm, and raises a lever, which is connected to, and operates, slides surrounding the stove wick; the flame thus being brought down to the size requisite for maintaining a uniform heat. When the timing attachment operates, it raises the slides so that they completely cover the wick, putting out the flame. When the proper adjustment of the apparatus is understood, it will be found to be very easily managed and to operate with certainty; the only essential requisite being that the vulcanizer is steam tight.

The Index is upon the lever mentioned above. It will be graduated to represent either temperature or pressure as may be desired; and when it is set the Regulator has complete control of the flame. The value of this feature in gas regulators is such that since its adoption by Dr. Snow in the summer of 1893, gas regulators not possessing it have been practically driven out of the market. It is just as valuable and efficient in its application to the Kerosene Regulator, enabling the dentist to change his vulcanizing temperature at pleasure, and without the loss of time.

A special form of Kerosene Stove, having attached to it the flame controller, forms a part of this apparatus; and when it is furnished with any of the vulcanizers made by Dr. Snow, the price of the ordinary heating apparatus (\$1.50) is deducted, as the one replaces the other.

PRICE.



This Flask Press combines the advantages of all others on the market with the greatest efficiency, simplicity and cheapness.

It is a Press which cannot get out of order even in the hands of the most

careless workman.

It does not take up any more room in the vulcanizer than a flask closed by

bolts, yet it locks the flask perfectly.

It requires much less time in closing and opening than the ordinary screw presses, an old excavator can be used for the purpose, thus dispensing with a wrench.

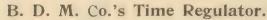
It exerts a continued pressure during the process of vulcanization, forcing out the surplus rubber, and making the plate dense and elastic.



DIRECTIONS FOR USE.

Place the Flask ready packed in position in the press, with the locking lever thrown back, place an excavator in the hole in the end of the lever, turn it over, and the case is ready for vulcanization.

Price...... \$1.00





This Time Regulator is of new design. In this, as in the gas regulator, the use of rubber in any form, excepting as connecting tubing, has been entirely discarded, as experience has proved that substance to be very prone to deterioration from a variety of causes. It has a metallic valve, which is gas tight, whether it be open or closed, which will be found to operate with ease and certainty. The timing device is operated by the minute arbor of the clock, instead of the hour arbor, as is usually the case. It is capable of very delicate adjustment as to time, it to reprint the being limited by seconds. its variations being limited by seconds instead of minutes.

The No. 1 Time Regulator is used in connection with Gas Regulators Nos. 1 and 4. No. 2 Time Regulator is used with Gas Regulator No. 2.

PRICES.

No. I. 5.00

The Handy Flask-Press.

Made by The S. S. White Dental Mfg. Co. So constructed that the bolts of the flask may be placed in their position, after the two parts are put together, without removing it from the press.

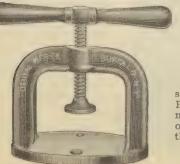
The screw is made to work freely in the nut, so that the operator may determine the amount of force applied to the closing of the flask.

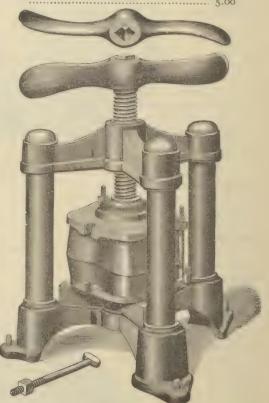
Welch Automatic Press No. I.

The screw operates on a strong steel spring, and the spring acts on the flask with a steady but firm pressure.

Automatic Basin Press No. 3.

Provided with a basin made of castiron, which can be heated over a Bunsen burner or a stove, making the closing of the flask one operation and much more convenient, as there is no change of flask from basin to press.





Flask Press.

For closing flasks after packing, and will effect considerable saving in bolts and nuts. The B. D. M. Co.'s Flask Press, as now made, is from entirely new patterns, much stronger than the old style, and enlarged to admit of using No. 18 large flask. It has a large square-thread screw, well fitted, and should last a lifetime.

Files For Vulcanite Work.

PRICES.

A. Half Round, with Tang for Wood Handle.

	Each.	Per Doz.
4½-in	\$0.14	\$1.65
5¼ "	.16	1.92
6 "	.20	2.32

B. Double End, Half Round.

	Each. Per Doz.
7-in	\$0.20 \$2.40
8 "	25 3.00
9 "	28 3.25

Half Round, Steel Handled.

	Each.	Per Doz.
4½-in	\$0.16	\$1.92
5¼ "	18	2.08
6 "	20	2.40

C. "Fish Belly," Half Round.

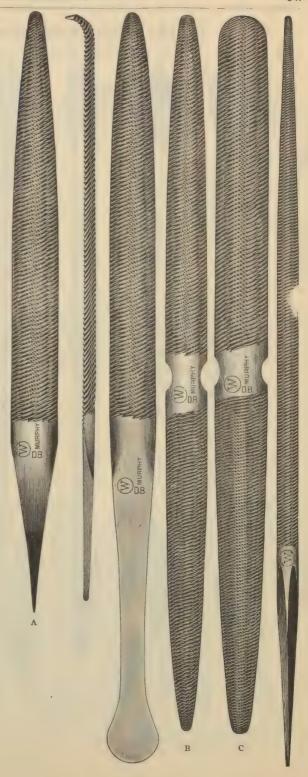
		Per Doz.
7-in	\$0.28	\$3.25
8 "	30	3.45
9 "	32	3.80

Half Round, Scraper Point, with Tang.

		Per
	Each.	Doz.
4½-in	\$0.17	\$2.00
51/4 "	20	2.32
6 "	22	2.60

Rat-Tail.

	Each,	Per Doz.
4	-in\$0.14	\$1.65
5		1.80
6	''	1.92



Murphy's Files for Vulcanite Work.

The Cuts show the Forms of these Files.



Nos. 1, 4, 5 and 6 are cut on one side of each end.

2 and 3 are cut on all sides of the end.

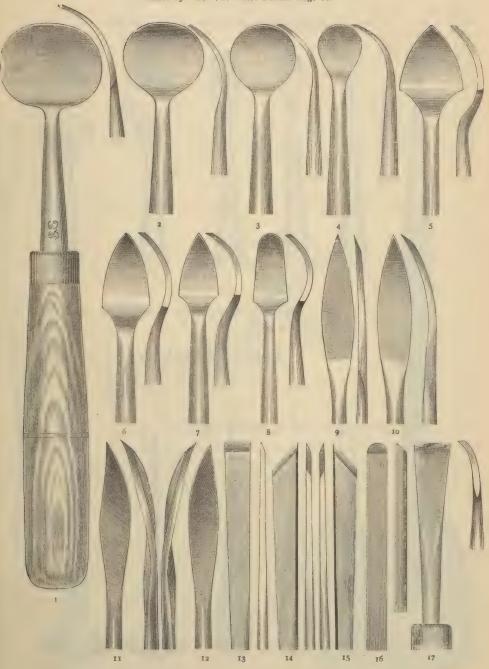
1, 4, 5 and 6 are half oval.

2 and 3 are full oval.

Price, each 20 cents; per doz.....\$2.40.

Vulcanite Scrapers.

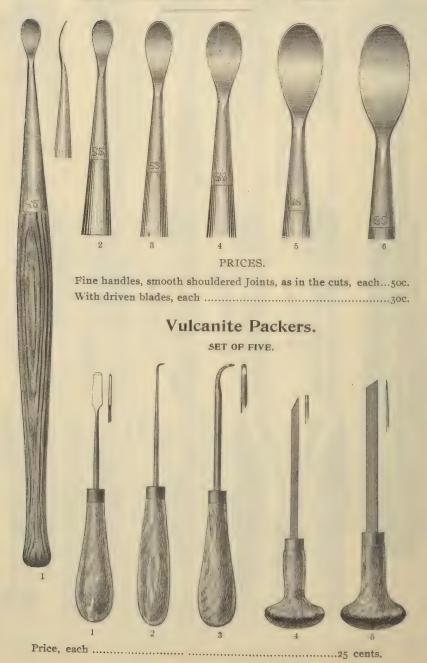
Made by The S. S. White Dental Mfg. Co.



Vulcanite Finishers.

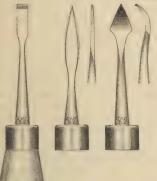
Made by The S. S. White Dental Mfg. Co.

FROM PATTERNS FURNISHED BY DR. N. W. KINGSLEY.



Fine Vulcanite Finishers.

Made by The S. S. White Dental Mfg. Co.

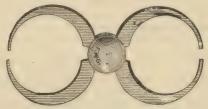


The small set of cute little tools illustrated comprises three new numbers. No. 21 is a thin, narrow chisel for paring the labial surfaces, margins and edges of a vulcanite (or cast) plate. No. 22 is a pointed side-cutting tool for carving smoothly between the teeth—the parts most difficult to shape and finish. No. 23 is for palatal and generally efficient work. The thoughtfully designed handles, such as we have had for years on the Kingsley Finishers, afford a firm, non-cramping grasp, and taken altogether, this finishing set will be found to pleasingly supplement the preparatory work of the burs, files and scrapers.

PRICE.

Fine Vulcanite Finishers, Nos. 21, 22 and 23, each 30c.

Calipers.



Brass,	as shown in cut25	cents.
	with Regulating Screw35	
	Registering75	

Rubber Aprons for Dentists.

Dentists, more especially those who do laboratory work, are frequently engaged in duties which make the possession of a conveniently assumed and quickly discarded protector of the clothing

desireable. The leather apron of the blacksmith is hardly suitable, nor is the smock frock of the butcher; but these newly devised Rubber Aprons are just what is wanted. Depending from the neck -34 in. long, and 34 in. wide at the center—they cover the

entire portion of the clothing exposed to the soil of work, and, the neck-band being capable of almost instantaneous attachment or detachment at either side, they can be put on or taken off in a moment. They will also be found useful in extracting operations. Made of Rubber Cloth, and finished in excellent style.

Price, each,......75c.



Miscellaneous Goods in the Mechanical Class.

Acid Pans, Copper, each	.\$.75
Air Chamber of Pattern Metal. per lb. Aluminum Crown each	
" in lots of 25	.65
Asbestos, Fine, (Powdered)per lb.	15
Coarse (Long Fiber)	. 30
Coarse (Long Fiber)	h .20
Blow Pipes.	.50
Brazing, Lee's, for hand use, with Rubber Mouth-Piece, etceach	2.00
Burgess Air-Pump	10.00
Burgess Air-Pump	2.50
Self-Acting	5.50
Brushes.	
Camel's-Hair for Collodion, Varnishes, etc., per doz., 50 centseach Hand, for Plate-Work, Bone Handle, three rows	
"" " four " four "	.25
four "four "five "	-55
Artificial Plates, Florence, per doz. \$2	. 30
Ideal, for Laboratory, three for \$1	.35
Burnishers.	. 30
Plate, Steel Blades, single-end, Nos. 1 to 7each	50
double-end, No. 8	75
Casting Rings, per set of four	60
Celluloid Apparatus and Appurtenances.	
Steam, Alcohol, Celluloid Mfg. Co.'seach, Gas, Flasks for Best Hot Moist Air Apparatus, Iron	16.00
Flasks for Rest Hot Moist Air Apparatus Tron	17.00
Rrass for Best file Rollst All Apparatus, Holl	2.00
Flasks for Best Hot Moist Air Apparatus, Iron	
Bronze	3.25
Packing for Boiler of Steam Apparatus, per strip	5.00
Bronze "" Seabury Celluloid Apparatus Packing for Boiler of Steam Apparatus, per strip "" Gland of Chalk Prepared, per lb., 12 cents, per box. Clamps for holding Plates while sweeping, each 60 cents to	.20
Chalk Prepared, per lb., 12 cents, per box	.IO
Contractors for reducing size of Collars, each	1.50
01.1	
Slabs, No. 1each, \$.40 Files, No. 7each, \$.40 files, No. 7	
	. 30
Files, ' 5 ' .40 ' IO ' IO ' IO ' IO ' IO ' IO ' III	. 20
	.20
	.20
Crucibles, Plumbago, No. ooeach	
Cand Not of fam.	.20
Sally, Nest of four	.10
Files, Murphy's Solder, Double-Find Nos 70, 72, 74, 76, 77, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	
Furnaces, Soldering, Russia Iron, with Cover	2.00
Draw-Plates. Furnished on order. Specify ranges of sizes desired. Files, Murphy's Solder, Double-End, Nos. 70, 73, 74, 76, 77,per doz., \$2.40, each Furnaces, Soldering, Russia Iron, with Cover	I. 75
das Apparatus.	
Retorts, Bohemian, with Rubber Stoppereach,	1.25
without " "without " Long Neck, I quart " '' '' gallon " Florence Flasks, without Stopper or Tube "	1.15
gallon.	.60
Florence Flasks, without Stopper or Tube	- 75 - 75
with Stopper and Tube	1.40
Retort-Holders	2.50

Miscellaneous Goods in the Mechanical Class.

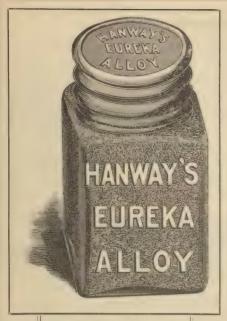
Clas Apparatus.—Continued.	
Rubber Stopper for Bohemian Retortseach,\$. IO
Wash-Bottles "with Rubber Stopper and two Tubes "with Rubber Stopper and two Tubes "	.50
Wash-Bottles.	1.00
" with Rubber Stopper and two Tubes"	1.75
Tubes, long	.25
short	.15
" Rubber Stoppers (two holes)"	.50
Cuara Dubbar Starr's	T 25
Guage, Rubber, Starr's	2 75
Kaolin, Prepared	2. 13
	. 12
Knife-Cleanerseach,	.50
Ladles, Copper, for melting Melotte's and other Metals	. 35
mandreis for Snaping Seamless Collars (set of 7)	1.00
Marble Dust, per quart, 10 cents, 10 lb. package. Mucilage Holders, 'Clover Leaf' for varnish, each. Oil, Sperm, 3 oz. bottle, per bottle.	.30
Mucilage Holders, "Clover Lear" for varnish, each	1.25
Oil, Sperm, 3 oz. bottle, per bottle	. 20
Papers, Abrasive.	
Sand, Emery, and Cuttle-Fish Papers, Emery and Crocus-Cloths.	
Crocus Clothper quire,	، 90
Cuttle-Fish Paper ""	.50
Emery-Cloth, Nos. oo to 1½	. 90
	1.00
	1.25
/-	1.35
Emery Paper, Nos. oo to 1½	
No. 2	.35
	.40
2 %	.50
(1) (1) (1)	.60
Garnet Paper	.50
Sand-paper, Nos. oo to 1½per quire,	. 25
't' '' 2, 2½ and 3	. 30
Pin, Logan Crowneach, Swaging Mallets for '' '' '' ''	.45
Swaging Mallets for	1.50
Sand Molding, per harrel, \$2: per bushel, \$1.60: per quart	.06
'' Chase's 2 quart tin can per can.	1.00
	1.40
"Brown's	.75
" "Investment	. 50
"Investment Compound, Chase's, 2 quart tins	.50
Silex, Coarseper 1b,	.25
Fine	
	.50
Extra Fine	2.00
Solder, Vulcanite, per bottle	. 25
Soldering Iron, each.	. 25
Spar, Bodyper lb,	. 50
"Enamel	.75
Swaging Hammers, Dead Bloweach,	-75
Trays for Logan Crowns. Trays, Wax Drip, applicable to Burners Nos. 12 and 14,	1.00
Trays, Wax Drip, applicable to Burners Nos. 12 and 14,	. 25
"Extension, for Burners Nos. 12, 14 and 19, (Specify Burner when ordering)"	.75
Tubing Conducting, 1/8 inch inner diameterper foot,	.08
	.12
	. 16
3/2	. 20
and the second s	. 25
(.30
3/	.35
	.45
"Gas Nozzles, Freeman's, Straighteach,	.15
Gas Nozzies, Freeman's, Straight	25
Vises, Bench,	7.00
Wax, Articulatingper 1b.,	1.00
Wax, Articulating	.75
	0/1

Furnaces for Continuous Gum Work.

We are ready with details about these Furnaces or any other Furnaces that are made. Right here is the place to write if you are interested or expect to be interested in this class of goods.

Furnaces Nos. 1 and 2 are oval, with hinged doors, the center sections cased with sheet iron, the No. 1 taking Muffles 12 inches long by 3¾ inches wide, inside measurements. Outside measurements of No. 1 Furnace, 43 and 34 inches high, 21 inches wide, and 16 inches deep.

	These Furnaces are not carried in stock, but are made only on order.	
	No. I. For two Muffles	28.00
	No. 1. " " with 4 Muffles, 6 Slides, and half-peck Fire-Clay, packed	
	in cask for shipping	33.75
	No. I. For one Muffle	22.00
	No. 1. "" " with 4 Muffles, 6 Slides, and half-peck Fire-Clay, packed in cask for shipping	27.50
	No. 2. Smaller, Muffle 11 inches long by 3½ inches wide, inside measurements.	-7.5
	Outside measurements, 33 inches high, 20 inches wide and 14 inches deep.	18.00
	No. 2. For one Muffle, with 4 Muffles, 6 Slides, and half-peck Fire-Clay, in	
	cask for shipping	23.00
	Model. Por Continuous-Gum Work. Total height 24 inches, diameter 12½ inches. With 2 Muffles, 1 pair Tongs, and a Poker (boxed)	
	Lilliput, Tees'. Height, 18½ inches; base, 12x8 inches. With 2 Muffles, Slide, Poker, Tongs, 2 Coke Screens, ½ lb. Kaolin, and instructions (boxed)	
	Parker's Improved Gas Furnace, including Bracket, two Trays, Fire-Clay for repairing, etc. (boxed)	
	The B. D. M. Co. Foot-Blower No. 9 B is recommended for use with this Furnace.	15.00
	Land Furnace, operated with oil instead of gas	
	Oil Can and Connection.	40.00
	Pine filled with Pire Clay and Asharks and init	2.75
	Pipe filled with Fire-Clay and Asbestos, per joint	3.00
Dane	Elbows	2.50
rui		
	Fire-Clay per quart	.06
	Muffles, No. 1, Roberts. 137/8x33/4x25/8 inches, inside measurements	1.00
	" 1, 12x3¾x3 inches " " "	.88
	" 2, IIx3½x2½ inches " "	-75
	" 3, 10½ x3½ x2 inches " "	.60
	"for Model Furnace, 8x2 1/x2 1/2 inches " "	.80
	"Lilliput Furnace, 7x31/8x21/8 inches " "	
	Slides, No. 1, 12 cents; No. 2, 11 cents; No. 3	.75
	"for Model or Lilliput Furnaces, 7 inches long, 31/8 inches wide	. IO
Bod	iv.	.15
	Allen's for Continuous Com Work the S. S. W. D. 35, G.	
	Allen's, for Continuous-Gum Work, the S. S. W. D. M. Co.'sper oz,	1.50
	Tee's, "Close's Dr. Close's Character's Rody and Framels per set & house	1.50
	A direct o body and Enantels, per set o noxes	I.50 8.00
		2,00
_	Mukeli S. A	2.50
Ena	AIIICI.	0
	Allen's for Continuous-Gum Work, the S. S. W. D. M. Co.'sper oz.,	2.50
	Dr. Close's make	2.50
	The S. S. W. D. M. Co.'s for Plant	2.50
	The S. S. W. D. M. Co.'s, for Blocks	2.00
	For coloring Porcelain Teeth, Poulson's, per box	.38
	o total, a outsoil o, pet bux	7 50



It contains all the essential elements for good color and edge strength.

PRICES.

I oz	2.50
5 oz	10.00
IO 0Z	19.00
MANUELCTUPED	

H. D. HANWAY

10 & 12 E. 23d St., NEW YORK.

Hanway's ... Eureka Alloy...

A.

The proof is conclusive that it will make a filling acceptable in appearance, and will remain so. There is no more discoloration to this Alloy than there is to gold. What some term discoloration in gold is merely a dark deposit which forms on the surface; a little friction, and it is immediately removed. The same with this Alloy.

The material itself does not discolor

and there is no perceptible shrinkage or change. In all respects as reliable as gold, it makes a very sightly filling, being more in harmony with color of tooth than any other metal filling.

of of of

Use chemically pure mercury in as small quantity as will make a stiff plastic filling, squeezing out all surplus mercury with hard pressure between thumb and finger. Have cavity dry. No subsequent polish is necessary, as the pearly white surface is not conspicuous in contrast with the tooth filled with this Alloy.



The Diagram Appointment Book.

The "Diagram" Appointment Book and Pocket Diary is a book suggested by practical dentists, and meets the wants of the profession. Its size is 63/4 x 4 1/4 inches. In the front it has calendars for three years, and a table to show the number of days from any day in one month to the same day in any other month. The book combines with an appointment book a Diagram for registering the work to be done, or to make memorandum of the work when finished, by having a diagram for each day, and the diagram in such shape as to be efficient and yet not make the book bulky and unhandy. There are one week's appointments on two opposite pages, and, therefore, six diagrams on same space. In the back of the book are pages for memoranda.

70ESDAY.			
8	miss Frailey	Y	P.W. Peck
9		2	Edgar Thomas
10	Bertie Dook	3	
11	Mrs Harmon	4	Paul Rosa
12		5	
G-			

The above is a fac-simile of one day's work in the "Diagram Appointment Book;" the appointments are made as usual, and the fillings are accurately noted on the diagram. No ledger or other memorandum is necessary for immediate use; at leisure the work may be copied into the large ledger, if desired. After each person's name a note may be made of the amount charged or paid. It will be seen that it is easy to keep a record on this diagram of the work of this day, or of any day, by letting the hour of appointment stand for that person in the diagram; thus the figure 8 in the diagram stands for, Miss Frailey, the 8 o'clock appointment.

PRICES.	
Cloth\$.50
Leather	.75

Dentist's Pocket Appointment and Record Book.

Made by The S. S. White Dental Mfg. Co.

Contains 360 pages for record, and 32 pages for memoranda. Size 3x6 inches. Bound in Morocco, with tuck; also in same, with tuck and two pockets.

		PRICES.
With	tuck	\$I.00
		and two pockets

The Meredith Pocket Dental Account Books.

These Books are in Three Series.

The Pocket Dental Register and Appointment Book.

Contains 224 pages, divided as follows: 120 pages for small accounts, ten to the page, each supplied with a diagram for locating operations; 24 pages for medium accounts, two to the page; 16 pages for larger accounts, one to the page; 16 pages with ten accounts to the page for operations on the temporary teeth; 32 pages for appointments, twelve days to the page (sixty-four weeks), good for any time; and 16 pages for memoranda. For dentists of small practice this book supplies all the requirements.

The Pocket Dental Journal and Appointment Book.

Designed for use, as the day-book and journal of the merchant, for recording the opera-ions of the day as they are completed, which are afterwards to be posted in a ledger. There are 176 pages with ten blanks to the page; 8 pages for operations on temporary teeth; 32 pages for appointments and 8 pages for memoranda. It may be used in connection with any of our dental ledgers, or with

The Pocket Dental Ledger and Appointment Book.

Made up principally of the large and medium blanks used in the Register, and, therefore, to be used more especially as a ledger or condensed statement of the work recorded in the journal. It has 96 pages for medium accounts, two to the page; 72 pages for large accounts, one to the page; 8 pages for operations on temporary teeth; 32 pages for appointments; and an ample index and pages for memoranda.

Prices uniform for all the above. Cloth......\$1.25

Leather, with tuck.....\$1.50

Griffith Appointment Book and Emergency Compendium.

Besides being a very conveniently arranged Appointment Book, it contains a fund of information not always at the fingers' ends of the average dentist. Useful, practical, likely to come handy at an unexpected moment and always ready for active service. costs no more than an ordinary Appointment Book without this feature.

Neatly bound in leather, with aluminum stamp and gilt edges. Two styles, plain, and with fold-over flap, pocket, and pencil-holder.

Leather, plain\$I.00

Books, Appointment and Account.

Ainsworth's Ledger, 200 pages. Half 'Russiaea	ich, \$3.50
396 Full Bound	6.50
Brooke's Dental Laboratory Register and Ledger, 280 pages. Half Russia	" 3.00
Water's Dental Register, 101 pages	" 3.50
(6,50

Warren Dental Ledger. Designed by G. W. Warren, D. D. S.

The design of the Book is to facilitate the dentist's book-keeping by lessening the labor. The headings cover all the usual operations in dentistry, and an ample memorandum column gives opportunity to make any special notes required.

The method of keeping accounts in this Ledger is, to number the operations consecutively, the figures being placed upon the tooth treated; then enter the date, number and amount in the proper places, with a check-mark under the heading. Nothing could be simpler.

The book is arranged in eleven sections of twenty-eight pages each. Each section conrice blook is arranged in eleven sections of twenty-right pages calculated section contains sixteen pages, one account to the page; eight pages, two accounts to the page; four pages, three accounts to the page, giving a total of 484 accounts, judiciously divided into long, medium and short, and distributed evenly throughout the book.

The size of the page is 10 x 15 inches; number of pages, 308. The paper is good, the binding handsome, and there is an ample index. Bound in red roan, with imitation leather

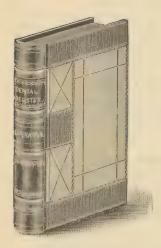
sides; red edges.

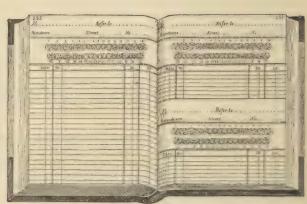
New Bill Heads.

The sales of the Warren Dental Ledger have necessitated the preparation of Bill-Heads adapted for use with it. They are the same size as the Nos. 1 and 3, 6 % x8 % inches, and the fac-simile of that used in the Ledger. Put up in tablets of 100.

Price, Bill-Heads No. 5, per 100......60 cents.

Bannister's Improved Dental Register.





Copyright secured.

The cuts convey a fair idea of our "Bannister's Improved Dental Register." A superior quality of paper is used in this register, and the perpendicular and horizontal lines are ruled in colors.

The teeth are engraved in two straight lines for economy of space, and are numbered from 1 to 32. Dots are used to represent the location of the filling. Thus 10° would mean that tooth No. 10 contained a filling in the position indicated by : (two dots).

This is the only Register printed in which the account of an entire family may be kept on one page instead of opening a separate account for each.

The book contains a chart of symbols by the use of which much writing may be avoided, and at a glance the dentist may know the history of the case in question, and its size $(7\frac{1}{2}\times8\frac{1}{2}\times1\frac{1}{2})$ makes it more convenient for handling and for filing away than any other in the market.

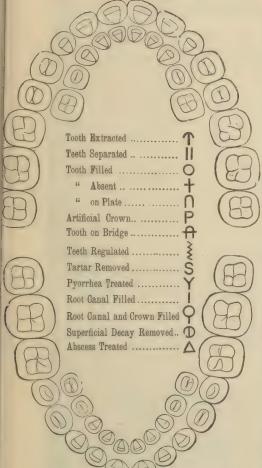
Made in four styles, all indexed and handsomely bound in leather with bands and ends.

PRICES.

No. 1—340 pages, I account to each page	3.00
No. 2-340 pages, 2 accounts to each page	3.00
No. 3-340 pages, 250 pages 1 account, and 90 pages 2	
accounts, to each page	3.00
No. 4-340 pages, 240 pages 1 account, 83 pages 2 ac-	
counts, to each page, and 53 pages (175 accounts) for	
registering mechanical work	3.00
Sample sheet sent upon application.	

Allport's Registering Dental Ledgers.

Made by The S. S. White Dental Mfg. Co.



The annexed cut represents a diagram, of which there are two on each page ruled for name of patient, reference, date of operations, charge for the same, and credit for amounts paid.

PRICES.

340 pages, half Turkey, Cloth Sides. \$3.50 340 " " Roan, Paper " ... 3.00 172 " " " ... 2.00

Bill heads, with Diagram same as in the Ledger, known as bill head No. 3, 8½ x 7 inches.

Examination Blanks.

No. 1. Memorandum Blanks.

These blanks are put up in tablets of 100 each, the illustration on each being similar to accompanying cut, less the printing matter. They have plain backs and are about 3 x 5 inches in size.

Price, per Tablet..... 20 cents.

No. 2.

Plan of the Allan Record, but smaller form.
Size is 3¾ inches square. Put up in tablets of 50.
Price, per Tablet......20 cents.

No. 3. Examination Tablets.

Very convenient for making memoranda of work done or to be done. Slips have a ruled memorandum account on one side, on the other side is placed a cut, which by proper marking, will give a full history of each case. Size of slips, 5½ inches long by 3½ inches wide. Ioo slips in a pad.

Price, per Pad30 cents.

Examination Record.

Dr. Allan's System.

In the plan of keeping records of examinations suggested by Dr. Chas. F. Allan, the diagram shown is printed on leaves (one side only) 5½ x 7½ inches. At the bottom of each leaf are blanks for the name of patient and date of examination, the space intervening being

of examination, the space intervening being used for such memoranda as may be required. The leaves are bound in oblong books containing 100 each, on the front cover of which is the imprint "Examinations. From......

Keeping these accessible, the dentist has only to refer to his ledger to get the date of any examination made; then turn to the "Examinations," and it is but a moment's search to find the one wented

The diagram is the most complete in its exposition of the various surfaces of the teeth that has yet been brought forward.

Price, per book of 100 Diagrams, $5\frac{3}{4} \times 7\frac{1}{2}$ inches......30 cents. We have also the books with the leaves numbered, and four ruled pages for indexing.

Price, Indexed and Paged40 cents.

Bill Heads.

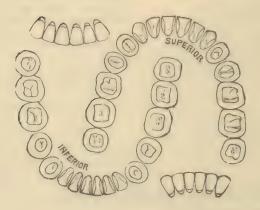
We have not deemed it necessary to illustrate the bill heads we are prepared to furnish. They are superior in style and are nicely printed on a high grade paper, each bill head having an illustration similar to No. 8, shown on page 562.

Regular or medium size, per hundred40 cents.

Larger sizes to order.

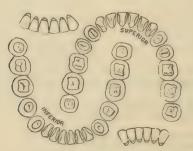
Rochester Dental Register.

Published by the Rochester Dental Mfg. Co.



This book has four plates like sample cut on each page. Size of page 8x10, heavy white laid paper, each page is numbered and indexed, so it may be used for day-book or ledger, making the most compact and convenient book for a daily record to be had.

Rochester Dental Appointment Book.



Two cuts each page.

In this form the day of the week and hours are printed, leaving the idate and month to be filled in so they may be used for any month or year, without loss of space.

For Office use,	Flexible Morocco	Cover
For_Pocket use,	Small Flexible Cl	oth Cover25

Pearson's Vest Pocket Appointment Book.

	Month of			1883.
	THURSDAY,	A M	PM	Operation
	Mrs. Jones,	9 .		G. Flg.
	Frank Swift,		2	Treat.
	Miss Mason,	10 .		Imp.
	Mrs. Brown,		31/2	Artic.
"	Mr. John Emith,			Fin G.
	Mr. Johnson's Child,		4	Rep.
	Mrs. Burnes,			Am. Fl
	FRIDAY	A M	P M	Operation
	Mrs. Jones,	9		G. Flg.
	P. E. Small,	10 .		Imp.
	Miss Mason,	12 .		Plate.
	Mrs. Roe,		2	Clea'g
	Mr. Thos. Clark,		31/2	Bon. Co
	Mrs. Hayes,		41/2	Ext.
	Frank Swift,		5	Treat.
	***************************************			******
	SATURDAY,	A M	PM	Operation
	Work in Laboratory,	9		
	;6 66 66	10		*****
	Mrs. Brown,		12	Plate.
	Miss Horton,		21/2	Exam.
	Mrs. Burnes,		3	Fin A
	Mr. Johnson's Child,		4	Reg.
	Gen. Thomas,		41/2	Plate.

Exact Size of Book

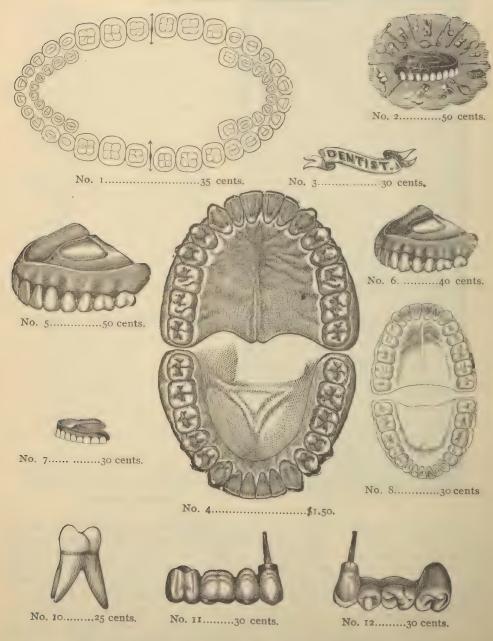
Copyright Secured.

The neatest thing of the kind ever offered to the Dental profession, can be carried in the vest pocket, arranged for the appointment for eight hours of every working day in the year. Blank pages in book for memoranda; as now made there is a pocket for appointment cards on inside of the front cover, and the inside of the back cover is an erasable tablet. By using this little book, you have your appointments always with you. Bound in Red Russia Leather with pencil attached.

Published by PEARSON-ALLENDORPH MFG. CO., KANSAS CITY, MO.

Dental Cuts--Electrotypes.

For Business Advertisements.



Nos. 11 and 12 show the front and back of a piece of bridge work.

We can duplicate any cut that is made and make it in any size. It doesn't make any difference what it is or where you see it. If you want one like it—send it here.

Specialties for the Mouth. Oraline Paste.

Made by The S S. White Dental Mfg. Co.

Oraline Paste combines real efficiency as an abrasive, detergent, and antacid, with elegance as a toilet article. It imparts a delightful and persistent fragrance to the breath and a sense of cleanliness to the mouth. In these respects it is superior to any other article we have tested.

IN TUBES.

Put up in tubes, making it convenient for use; each tube enclosed in a neat box. In gross lots or more, the dentist can have his name and address printed on the labels without extra charge.

Price,	per gross	\$25.50	
6.6	dozen	2.50	
6.6	each		

IN OPAL GLASS JARS.

For home use opal glass jars are perhaps preferable to tubes. We supply the Paste in two sizes of jars, known respectively as Large and Small, the former containing 2½ oz. and the latter 1½ oz. They are provided with screw caps having nickled rims, and handsome lithographed

Large,	per gross	
6.6	" dozen 4.00	
6 6	each	



	in gold and colors.	
Small,	per gross\$25.50)
6.6	66 dozen 2.50)
6.6	each	,

Tooth Powders.

Made by The S. S. White Dental Mfg. Co.

No. 1 Tooth Powder. Two flavors-rose and wintergreen.

It is intended to meet all the requirements of a dentrifice for general use, combining elegance with efficiency, and it may be used with pleasure and benefit at all ages. It is highly perfumed with delicate oils, and is in every respect as perfect as it is possible to make it. Please state the flavor desired. When flavor is not mentioned we send Rose.

For real value as a cleansing powder for daily use the No. 2 is equal to the No. 1, but it is less elegantly colored and less delicately perfumed. Like the No. 1, it may be used with entire confidence.

4-lb. Decorated Tin Cans.....each, \$3.50 /2-lb. Decorated Tin Cans.....each, \$0.60 r-lb. " " " 1.00 /4-lb. " " "" 35

No. 3 Tooth Powder.

Designed more for real efficiency than for elegance, but an agreeable and excellent preparation. It is composed of pure materials, and meets all the requirements of cleanliness. It differs from the high-priced powders in color, odor, and taste—not in essential qualities.

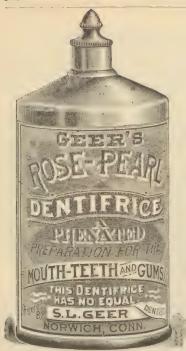
Soluble Tooth Powder.

Prepared with special reference to the wishes of those who desire a moderately abrasive dentrifice without other medical property than that included in an antacid quality. It possesses the hardness necessary for removing recent and slight deposits upon the teeth; is grateful to the taste, and leaves no unpleasant after-impression of astringency. For this reason it is preferred by many.

Phenated Tooth Powder.

Designed to combine the ordinary abrasive and antacid qualities of a dentrifice with disinfecting and deodorizing properties. It is recommended in those cases where the condition of the teeth or gums causes an offensive breath, and in scorbutic and apthous condition of the mouth. It is pleasant to the taste, cooling to the gums, sufficiently abrasive for cleaning the teeth, and is altogether unexceptionable as a daily toilet article.

4-lb. Decorated Tin Cans.....each, \$5.00 1/2-lb. Decorated Tin Cans......each, \$0.90 1-lb.



Geer's Rose Pearl





Dentifrice.

This preparation for cleaning and beautifying the teeth, as well as imparting a fragrance to the breath, eminently supersedes any other dentifrice having a similar use or object. Used with a brush on the teeth it immediately penetrates the interstices, and thoroughly eradicates the minutest particles which tend, not only to decay, but to discolorment of nature's most servicable, and at the same time, most striking ornaments.

WE SELL IT.

Pyorrhea Alveolaris.

WHAT IS PYORRHEA ALVEOLARIS?

A more or less general formation of pus about the roots of the teeth exuding from beneath the free edges of the gums.

WHAT IS ITS CAUSE?

Systemic predisposition, combined with decided induration of toothtissue or other local irritant (sanguinary calculus, caries or necrosis of process edge, gum pouches).

WHAT IS ITS TREATMENT?

If possible, thorough removal of all local possibilities for irritation, together with astringent, detergent and stimulant medication (zinc chloride, zinc iodide, carbolic acid and caustic potassa, dilute suphuric acid, peroxide of hydrogen).

WHAT IS THE PROGNOSIS?

Possible amelioration of greater or less duration; probable recurrence of trouble, with usually gradual but persistent re-establishment of previous condition.

Flagg & Inglis "Dental Pathology and Therapeutics."

The use of Seabury's saturated solution of WHITE OAK BARK will absolutely prevent a recurrence or re-establishment of pyorrhea alveolaris.

It is a standard preparation, and may be used as a GARGLE full strength, without any ill effects.

PRICES.

I2-OZ.	bottle,	\$1.00; per dozen\$8	.00
0-0Z.			00
2-gallo	n jug,	per jug 8	.00

Mouth Washes.

BOUQUET. An elegant and delightful toilet article for daily use by those whose mouths are in a healthy condition and needing no special medication. It leaves a persistent fragrance upon the breath.

Price, 6 oz. Glass-Stoppered Bottles; per bottle, 75c.; per doz., \$7.50; per gross, \$84.00.

HOLMES' SURE CURE MOUTH WASH AND DENTRIFICE. Antiseptic, Disinfectant, styptic, detergent, stimulant. A very pleasant preparation, both as a wash for diseased conditions of the gums and as a dentrifice.

RUBY MOUTH WASH. Highly, but delicately perfumed, without a stringency or bitterness, although so concentrated that a few drops in a half-tumblerful of water are sufficient to make a delicious, fragrant perfume, which leaves a persistent, agreeable sense of cleanliness in the mouth.

Put up in 4-oz. bottles, each bottle in a neatly ornamented box. Price, per bottle, 75 cents; per doz., \$7.50; per gross, \$84.00.

SALICYLIC ACID MOUTH WASH. Salicylic Acid possesses remarkable properties as a disinfectant and deodorizer. Being without smell or taste, it advantageously replaces carbolic acid, to which, in the respects alluded to, it is highly preferable. Generally efficient in the treatment of morbid conditions of the gums and mucous membrane. The mouth wash contains salicylic acid in full proportion, according to an approved formula.

Put up in 6-oz. bottles.

Price, per bottle, 50 cents; per doz., \$5.00; per gross, \$37.00.

ORALINA. This is an agreeable preparation, intended for daily use as a toilet article for cleansing the mouth and teeth and imparting a pleasant fragrance to the breath. It is slightly stimulant, astringent and antacid.

Put up in 4-oz. bottles.

Price, per bottle, 35 cents; per doz., \$3.50; per gross, \$37.50.

Miscellaneous Mouth Washes.

Astringent, put up in 3-oz. bottles	Each.	Per Doz. \$3.00	Per Gross
(,) (; ; i6-oz, '	1.25	#5	#30-
Florentine " " 3½0z. "	.40	3.50	37.50
Saponaceous " " 4-oz. "	.30	3.00	33.00
Teaberry " " 2-oz. "	.25	2.25	23.00

Tooth Soaps.—Three Flavors.

Composed of the purest white soap cocoanut oil English precipitated chalk, orris root, white sugar and aromatics, warranted of the best quality. These are so skillfully combined that, while the resulting dentrifice has all the cleansing properties of the best soap the peculiar soapy taste is completely masked. We have three flavors: Mint, Wintergreen and Rose, experience having demonstrated that these leave the most agreeable taste in the mouth after use

Put up in cakes, 2½ inches long, 1¾ inches wide, and ¾ inch thick, and enclosed in a neat decorated box.

Decorated Tooth Powder Flask with Screw-Top.

This handsome, convenient, and substantial decorated tin Flask holds two ounces of tooth powder. The cone-shaped top favors the ready flow of the powder. Being stoutly made it will stand considerable hard usage, and it is thus better adapted to the needs of travelers, especially, than glass bottles, while its neatness and usefulness will commend it to all classes

PRICES.

Filled with No. 1 Rose or Wintergreen Tooth Powder. Each, 25 cents; per dozen, \$2.50; per half-gross, \$12.00,

Tooth Powder Bottles.

The Bottles are made of flint-glass. The mouths being wide permits their being easily filled, the tapering necks allowing the Powder to flow readily, without choking up.

This convenient manner of keeping tooth powder meets with general favor, avoiding waste, and the Bottle can be conveniently carried when traveling. The fragrance of the powder is retained and several may use from the same bottle with propriety.

		TRICES.			
		Per Gross.	Per 1/2 Gross.	Per Doz.	Each
No. 1. (Large	b)	\$14.50	\$ 7.75	\$1.50	\$0.15
No. 2. (Small	()	12.00	6.50	1.25	.12
		Powder 43.00		4.50	.40
No. 2.	((((((((· · · · · · · · 31.00	16.50	3.25	.30

These Bottles can be supplied, on order with the same cap, adapted for mouth washes, at same rates as above.

Spring-Bottom Tooth-Powder Flask.

The Spring-Bottom Flask is in several ways a great improvement on former patterns. The bottom being a screw-cap, and readily detachable, the Flask can be filled in a moment, and when the powder is to be used a slight pressure on the bottom springs it inward and forces the powder out at the top.

Price,	empty, per doz \$1.	25
* *	each	12
6 6	filled with No. I Tooth-Powder, per doz	75
"	each	

Precipitated Chalk.

Half-Pound Rice-Paper Bags, Boxed.

Colognes.

Ordinama Calamas	mind heattles	1 . 447	4
Ordinary Cologne,	pint bottles	per bottle,	\$1.00
Bouquet "	12-oz. glass-stoppered	6.6	1.50
Oriental "	12-07	6.6	1.75
	46-74.		4.13

Quill-Reserve Tooth-Picks.

A narrow blade of goose-quill is grasped firmly in the holder, and when not in use is slid into the case. This blade, being double-pointed, is reversible. The screw-cap encloses a chamber for carrying reserve quills, of which 24, equal to 48 tooth-picks, are included in the price of each case.

No. 65. Nickel-Platedeach, \$0.	20
((6m C)-1.1 ((10
West Chair B. C. Li Bridge	50
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The Prophylactic Tooth-Brush.

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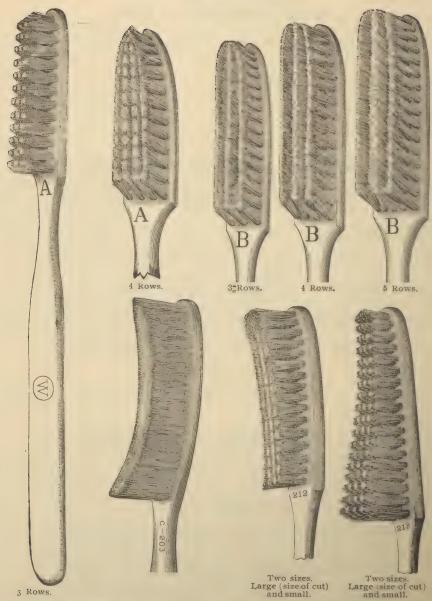
Made of boxwood, varnished, with fancy lithographed label, "Tooth-Powder," without name.

me.				
		Per	Gross.	Per Doz.
No.	2.	21/4 inch diameter, 11/8 inch deep\$	5.25	\$0.50
	3.	21/2 " 11/4 "	6.30	.60
* *	4.	23 ₄ " " " " " " " " " " " " " " " " " " "	7.35	.70
F	in	e Card=Board and Paper Tooth=Powder Bo	xes	
		Per	Doz.	Per Gross.
No.	I.	Paper, Round, covered with Gilt and Star Paper, lined with Sil-		
		ver Paper, 2½ in. diameter 7/8-in. high	0.35	\$4.00
No.	2.	Fine Card-Board, Round, covered with Enameled Paper, edged		
		with Gold Paper, 21/2 in. diameter, 7/8-in high	. 45	5.00
No.	3.	Fine Card-Board, Oval, covered with Gelatin Paper edged with		
		Gold Paper, 2% in. long, 2 in. wide, %-in. high	.55	6.25
No.	4.	Fine Card-Board, Round, covered with Gelatin Paper, edged with		
		Gold Paper, 2½ in. diameter, %-in. Ligh	.55	6.25
No.	5.	Paper, Half-Oval, covered with Gelatin Paper, edged with Gilt		
		Paper, 23/8 in. long, 21/4 in. wide, 11/8 in. high	.65	7.50
No.	6.	Paper, Half-Oval, covered with Gelatin Paper, edged with Gilt		
		Paper, 23/8 in. long, 21/4 in. wide, 15/6-in. high	.65	7.50
		ALL THE ABOVE ARE WITHOUT LABELS.		
		ALL THE ABOVE ARE WITHOUT LABELS.		
No.	7.	Paper Top and Bottom, Card-Board Side, Round, covered with		
		Enameled Paper, edged with Gilt Paper, 2½ in. diameter, 1/8-in.		
		high	.45	5.00
No.	8.	Paper, Round, covered with Enameled Paper, lined with Silver		
		Paper, edged with Gilt Paper, 2½ in. diameter, 1/8-in. high	.50	5.50
No.	9.	Fine Card-Board, Round, covered with Enameled Paper, edged		
		with Gold Paper, 21/8 in. diameter, 7/8-in. high	.50	5.50
No.	IO.	Fine Card-Board, Half-Oval, covered with Enameled Paper,		
		edged with Gold Paper, 2% in. long, 2 in. wide, 7/8-in. high	.55	6.25
No.	II.	Paper, Half-Oval, covered with Enameled Paper, edged with		0 -
		Gilt Paper, 2% in. long, 2¾ in. wide, 1½ in. high	.70	8.00
No.	12.	Paper, Half-Oval, covered with Enameled Paper, edged with		0 -
		Gilt Paper, 2% in. long, 2¼ in. wide, 15-in. high	.70	8.00

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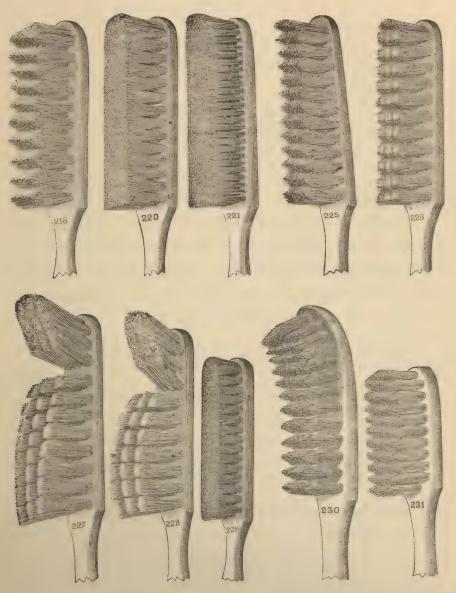
Tooth Brushes.



No. 205, similar to 203, but smaller. No. 207, similar to 205, but smaller.

	- / Diminut to 200, but billaries.
Per doz. A 3-Row, Soft or Medium Bristles\$3.00 A 4-Row, " " 3.50 B 3-Row, Medium Bristles	Per doz. C 205, Plain Backs, Soft or Med. Bristles, \$3.50 C 207, " " " " " 3.50 212, Large, Medium Bristles

Tooth Brushes.



No	215.	Medium	Bristles		per	dozen,	\$3.50
66	220,	Very soft	6.6	goat hair		6.6	3.50
6.6	221,	46 46	66	badger hair		66	6.00
				Dauger Hair		66	3.50
		Medium			•	6.6	3.50
6.6	226,	6.6	6.6	***************************************	1	66	
1.6	227,	6.6	6.6	***************************************			4.50
6.6	228.	4.6	6.6	*********** ***************************		4.6	4.50
1.6	220	Soft Bris	tles (for	children)		6.6	3.00
6.6	220,	Medium	Brietles			6.6	3.75
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"Weeks' Manual of Operative Technics."

A PRACTICAL TREATISE ON THE ELEMENTS OF OPERATIVE DENTISTRY,

... By Thomas E. Weeks, D. D. S....

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PRICE, - - - \$3.00.

Endorsed by the National Association of Dental Faculties, and adopted by several Dental Colleges as a Text-Book.

The object of this work is to outline a course of Operative Technics for students in colleges. It is so arranged, and the work laid out in such a manner, that any teacher of technics may carry his class through the various stages of the work in an advantageous and systematic order. The teaching of technics has become an established necessity in our colleges, and this book is the first that has ever appeared upon this subject.

The Parker Swaging Device.





comes the follower with its concave flange, which forces the shot down to a common centre. Four or five smart raps with a hammer do the business.

Plaster is substituted for the metal and the final finish made on the original plaster model, which, of course, is the only exact reproduction of the mouth possible to make. If a plate will fit a plaster model exactly it will fit the mouth. The result is a plate that fits as no man living has ever been able to make a metal plate fit before.

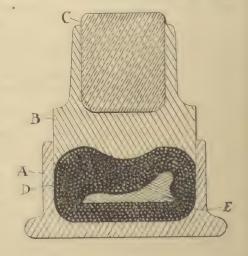
It doesn't make any difference about under cuts. It doesn't make any difference about the obstacles that have always bothered the makers of metal plates.

This appliance does away with every one of them.

It has been a difficult matter to know where to list this appliance. It is not like anything else. It is a new departure. It has the field all to itself. It does not seem reasonable to talk about swaging a metal plate over a plaster cast, yet that is exactly what any dentist can do with the Parker Swaging Device. He can swage a plate from start to finish on the plaster if he wants to.

Water under hydraulic pressure would make an ideal counter die. The pressure would be the same everywhere. This is the secret of the Parker Swaging Device. Substitute small shot—the smallest made, No. 12—for the water and you have the whole story. Shot under pressure flows, just as water flows. In the Parker Swaging Device the shot is condensed around the plate on the cast, the pressure is equal. There is just as much pressure on the sides of the cast as on the top. Just the same one place as another. The plate is bound to be forced into its proper place. It must be. There is no chance about it.

When the plate has been started into position on a thin metallic model with a horn mallet, or partially bent into shape with a pair of pliers, the plate and model are wrapped in a piece of paper and placed in the cup. This package is covered over with shot. Then



The Parker Swaging Device.—Continued.

We mean to say that a man who will use this Swager once will never swage another plate without it. He simply can't do it. He might have been able to do it before he tried this. When he realizes just what this Swager will do for him, he would just about rather his patient would go elsewhere if he had to do without it. These are facts.

We send full directions with each Swager. There is no room here for the finer details. Figure 2 shows why it is done. Our complete directions tell how it is done.

A is the cup. B is the follower with the concave flange. C is the wood concussion

block. D is the shot. E represents the plate and cast in proper position

Parker Swaging Device, 3 or 31/2 inches diameter, 11/2 inch deep, each........\$6.00

quantity or in 25 lb. bags.

The Parker Crown and Band Swager.

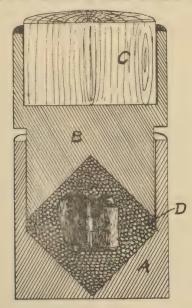


Fig. 3.

The principle involved in the Plate Swager works just as well when applied to crown work. Fig. 3 is a Crown or Band Swager. The shot condenses around the metallic facsimile of the tooth to be crowned. It contours the gold as no pair of pliers could contour It is bound to do it.

It will swage a cusp. Every man will find a different use for it. It will save time. It will do work that could not be done any other way. There isn't a dental office where crown

and bridge work is done that it oughtn't to be.

Fig. 3 shows method of operation. The gold is held in position by a bit of soft metal bent like a flattened "V." A is the cup. B is the follower. C is the wooden concussion block. D is the shot.

hese swaging appliances are not merely for experimental work. They are for practical every-day use. We mean just what we say about them. We know just what they will do. Every dentist has the privilege of satisfying himself about them. If the Devices do not do exactly as we say they will do, we will send back the price paid for them. There will be no quibbling about it. Send back the outfit. We will send a draft on New York for the price.

SOLE AGENTS:

LEE S. SMITH & SON, Dental Depot,

PITTSBURG, PA.

524 Penn Avenue,

Index.

This is the very best index we know how to compile. We have made it

complete as it can be made. We do not believe it can be improved upon.

We have paid no attention to set rules. We have arranged this index to help our customers find goods listed in this Catalogue. That is all it is for. If a man cannot remember the entire name of an article he is likely to remember part of it. If he remembers part of it he is going to find what he is after in the first place he looks for it.

Carborundum Lathe Wheels are indexed as "Carborundum Lathe Wheels" under C. "Lathe Wheels, Carborundum" under L. And "Wheels, Carborundum Lathe" under W. That is the plan of the index. That is all the system there is about it. It is simple. It is complete. We believe it will be appreci-

ated.

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